

Appendix-7 : Program, Proceedings and Participant List of Workshops/Seminars

- Appendix-7.1: Workshop on 26 October, 2015 (Geophysical Exploration on Embankment)
- Appendix-7.2: Workshop on 16 November, 2015 (Draft manuals)
- Appendix-7.3: Workshop on 03 February, 2016 (Pilot Repair Works)
- Appendix-7.4: Workshop on 02 April, 2016(Pilot Repair Works)
- Appendix-7.5: Joint Inspection and Workshop on 12 March, 2017 (1st Phase of Final Inspection of Pilot Repair Works)
- Appendix-7.6: Joint Inspection on 27 April, 2017 (Pilot Repair Works)
- Appendix-7.7: Joint Inspection and Workshop on 20 May, 2017 (Pilot Repair Works and Final Draft of Construction Manual)
- Appendix-7.8: Seminar on 13 July, 2017 (Manuals and Action Plan)

**Explanation and Demonstration
On
Geophysical Exploration of Embankment
for
The Project for Capacity Development of Management for Sustainable Water
Related Infrastructure**

Date: October 26, 2015

Time: 15:00 – 16:30

Venue: Training/Library Room, Design Circle, BWDB, Green Road, Dhaka

AGENDA

14:30 – 15:00	Arrival and Registration
15:00 – 15:10	Opening Remarks by Director Planning-1
15:10 – 16:00	<p>Presentation/Demonstration of Geophysical Exploration of Embankment by Mr. Kobayashi</p> <ul style="list-style-type: none"> • Presentation: Applied Methods (10 min) • Demonstration: Applied Methods (30 min) 2D Resistivity Method, Surface Wave Method • Presentation: Field Investigation Result (10min) Comilla & Moulvibazar
16:00 – 16:20	Q & A (20 min)
16:20 – 16:30	<p>Closing Remarks:</p> <p style="text-align: center;">Additional DG Planning Chief Engineer Design/Planning</p>
16:30 – 17:00	Adjourn and Tea

Participant List of the Workshop

The Project for Capacity Development of Management for Sustainable Water Related Infrastructure

Date: October 26, 2015, Time: 03:00 pm – 04:30 pm

Venue: Training/Library Room, Design Circle, BWDB, Green Road, Dhaka

No	Name	Title/Organization	Phone No Email Address	Signature
1	Provati Mukherjee	CE / BWDB		
2	Md. Abdul Hye	SE / Director D. of Planning-1 BWDB		
3	KAZI TOFAYIL HOSSAIN	SE / DESIGN CIRCLE-2 BWDB		
4	FAZLUR RASHID	Director ^{SE} / Staff Dev.		
5	Nalika Sumaira Hussain	AE / Design Circle -1, BWDB		
6	YASMIN BEGUM	SE, CHIEF ENGINEER DESIGN BWDB,		
7	Md. Asaduzzaman	E. E. Planning-1 BWDB.		
8	Md. Shahidul Alam	Director Ground Water Hydrology		

No	Name	Title/Organization	Phone No Email Address	Signature
9	Nasima Jahan	EE/ BWDB		
10	Shamrad Mahmuda Fatima	Assistant Engr. (BWDB)		
11	Nasrin Jahan	Project officer (JICA)		
12	Md. Enayet Ullah	EE/BWDB		
13	Md. Mainul Islam	Sn. Expert-2/ CDMSWRI		
14	Md. Abdul Basit	E. E/BWDB		
15	A. K. Manzum Hasan	SE/BWDB		
16	Md. Hannur Rasheed	SE, Design Circle-1 BWDB		
17	Md. Abul Kausar	SE Design circle-4 BWDB, Dhaka		
18	B. M. Nath	SE, Design Circle-5, BWDB, Dhaka		

No	Name	Title/Organization	Phone No Email Address	Signature
19	MOTAHAR HOSSAIN	SE, Design Circle-6 BWDB		
20	DR. ANWAR ZAHID	DP, GWH BWDB		
21	Kazumitsu MURAOKA	JICA Expert for BWDB		
22	Md. Mahfuzur Rahman	Executive Engineer Design Circle-15 BWDB, Dhaka		
23	Md. Saif Uddin	XEN, Design-11.		
24	Md. Majadur Rahman	XEN, Design-IV		
25	Md. Shohiduzzaman	SDE, Design-V		
26	Mahid-Al-Haman	AE, Design-I		
27	Md. Arif Hossain	AF, Design-I		
28	AFM Tauhid Jaman	AE, Design-1		

No	Name	Title/Organization	Phone No Email Address	Signature
29	Md. Abdul Malek	AE, Design-6, BWDB		
30	Md. Maauddin	XEN, Gopalganj OEM Division, BWDB, Gopalganj		
31	Engr. Md. Halim Shahid	Sub-Divisional Engr. Kashicani O&M Sub-Div. Sim, BWDB, Gopalganj.		
32	Hasan Zubaer	Senior Local Expert JICA		
33	Yoshimasa Kobayashi	JICA Expert		
34	Yosuke USUI	=		
35	Muntasir Ibn Mohsin	Administratator JICA Expert Team CDMSWRE		
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Proceeding of the Workshop on the Project “Capacity Development of Management for Sustainable Water Related Infrastructure” held in the BWDB Conference Room on 16th November, 2015

A half day workshop was held on the activities of the Project “Capacity Development of Management for Sustainable Water Related Infrastructure on 16th November, 2015 in BWDB Conference Room, 3rd Floor, WAPDA Building.

The workshop was conducted in 5 (five) sessions as described below. The Program and Participant list in the workshop are attached in Annexure-1 and Annexure-2, respectively.

Opening Session: In this session Mr. Abdul Latif Miah, ADG (East) in charge of DG, BWDB presided over. With recitation from the holy Quran the session started. Mr. Mahfuzur Rahman, Chief Planning in his opening speech described the purpose of the project and activities so far done. He mentioned that the project has started for more than 2 years ago and it will be continued till September 2017. The JICA expert team have prepared Draft Design Manual for embankment, Draft Construction Manual, and Draft O & M Manual, and tendered for pilot repair work. The contract of which will be signed on 16th November 2015. He also mentioned that the project is JICA and BWDB joint venture Project by which BWDB will be benefitted. The project also will conduct on job training in Japan and Bangladesh. Two batches of trainees from Bangladesh have already been trained in Japan.

Mr. USUI, team leader of the JICA expert team stated about the outline the project activities through power point presentation.

Then Mr. Koichi Kitamura, JICA Representative Bangladesh expressed his views about the project and workshop. He mentioned that he thinks this workshop is a good opportunity to know about what JICA is performing with BWDB in the project. He pointed out that JICA & BWDB are working together for the overall development of the capabilities development of management for sustainable water related infrastructure and this workshop will help in enriching the efforts in the days to come. He expressed satisfaction about the response of BWDB and JICA experts regarding the project.

Then DG (incharge) BWDB in his speech stated that this joint venture project is for Capacity Development of Management for sustainable water related infrastructure through updated Design Manual, preparation of Construction Manual, O & M Manual, and GIS data base, and on job training in Japan & Bangladesh. This workshop will help us a lot in our future development. He expressed gratitude to everybody attending the workshop & he declared the workshop open wishing for its success.

Session 2: Present condition of embankment. It was chaired by Mr. Mahfuzur Rahman, Chief Planning, BWDB. In this session 2 papers were presented by Mr. Harun-ur-Rashid, SE, Design Circle-1, on outline of Embankment work of BWDB & another by Mr. Tatsuya MOCHIZUKI, JICA expert team member on Rough Assessment in Current Status of River Embankment in Bangladesh.

Mr. Harun through power point presentation describe about the types BWDB embankment. Design parameter of BWDB embankment, Failure nature, specification of embankment

Construction and challenges that BWDB face regarding the embankment construction and maintenance. He also mentioned about slope stability analysis, seepage analysis, sheer strength analysis etc.

Chairman of the session thanked Mr. Harun for nice presentation and appreciated some comments from the audience. He gave emphasis on personal communication with the presenter regarding any clarification.

Mr. Mochizuki in his presentation through power point stated about the causes of embankment failure in Bangladesh. He mentioned about 14 investigation sites throughout the country for the assessment of failure. He pointed out that from all the investigation report in his opinion erosion is the main cause of failure of embankment in Bangladesh.

He also spoke about the impact of expansion of erosion at Moulvibazar and embankment condition & analysis in Khulna.

Mr. Sajedur Rahman, SE/Ganges Barrage Circle, Commented that for Different soil condition embankment design will vary, which should be clarified in Mr. Harun's presentation. He also pointed out that a data bank on soil condition may be created in Design Circle for ready information of soil condition in a area from the facility of speedy design preparation pending investigation at site.

Then Dr. Jiban Kumar Sarker, EE pointed about the d value and he said that d value will be different for different place as a comment to Mr. Mochizuki's presentation.

Session 3: Preparation of Manuals and pilot project works. This session was presided over by Mr. Jahangir Kabir, Chief Engineer, Design, BWDB. In this session 4 (four) Papers were presented.

1st Paper: Outline/ Basic Consideration of Draft Design Manual for Embankment Presented by Mr. Tatsuya MOCHIZUKI, JICA Expert Team member. Mr. Mochizuki through power point presentation mentioned about Design Consideration, Bearing Capacity, Circular sliding, toe protection, & Design Speciation. Participants wanted to comment. But the Chairman of the session opined that a committee may be formed to review all comments on the Draft Design Manual Circulated to concerned offices and comments may be given to the committee.

ADG, Planning Present in the meeting agreed in this matter.

2nd Paper: Basic Consideration on Draft Construction Manual for Embankment presented by Mr. Koizumi, JICA Expert Team Member.

He spoke on the Density test by Sand replacement method and Safety measures. He also spoke about the progress charts and field soil test for determination of water content. Chairman of the session told that it will take time to understand the safety measures and review the manual now, so it can be finalized through a committee getting comments afterwards.

3rd Paper: Basic Consideration of Draft O & M Manual for Hydraulic Structure, presented by Mr. USUI, Team Leader, JICA Expert Team.

He spoke about the O & M Guideline, National Work Policy, Nation water Act, SWAT Analysis. He also spoke about the Four pillar of O & M Such as:-

- Basic Scheme Data
- Planning O & M
- Budgeting of O & M works
- Monitoring of O & M works

He spoke about the Eight Chapter of O & M Manual. He also requested for comments on Draft O & M Manual.

XEN Amirul Hossain, FFCW Comment on O & M Manual as follows:

- (1) Zonal map should be updated
- (2) Summary should be given
- (3) Peoples participation in CDSP, EIP, CPP may be mentioned
- (4) IPSWAM guideline may be mentioned
- (5) Water Resource Project <1000hd either FCD & FCDI should be clarified
- (6) Central Data Base in BWDB may be established.

Chairman of the session opined that the O&M Manual may also be finalized through a committee.

4th Paper: Outline of Pilot Project Work. The paper was presented by Mr. Nakazawa, JICA expert team member. He spoke about the site of pilot repair works, its present condition & failure pattern, characteristics of the surrounding area, establishment in the pilot repair work area. He mentioned that meeting with the land owner to allow the pilot repair work and their help in all respect for the work was held. There was FGD at work site and environmental assessment report has been made and the pilot repair work is environmental friendly. Some little adverse effects can be mitigated by EMMP. The land owners agreed to provide land and other assistance. He spoke that work will start soon and will be completed by mid-May, 2016. He gave emphasis on Environmental aspects and it should be taken care of by everybody during the execution of work and during the maintenance period. He also mentioned that the pilot work is for a length of 265m.

4th Session: Report in Training in Japan.

This session was chaired by Chief Engineer Design, BWDB

Mr. Khalequzzaman, Chief Monitoring, BWDB and Ms. Fatema, Assistant Engineer presented their experience of training in Japan from 4th to 17th October, 2015. Mr. Khalequzzaman said that there is difference of all the features like topography, river characteristics, culture etc. in Japan than those in Bangladesh. But the trainees have learnt a lot from this training about advanced engineering. Then Ms. Shamsad Mahmuda Fatima gave brief review of the training such as orientation, lecture attendance, field visits, concluding session, etc. in the presentation. She also showed one video on how to stay during earth quack of 9 magnitude for 30 second.

Also one of the training participants in Japan Mr. Hiruzzaman, Deputy Secretary, MoWR spoke about the nice culture, hospitality, helping attitude, neat and cleanliness and very gentle behavior of Japanese. He mentioned that his ideas and views about life have changed a lot after this training. Chairman of the session concluded the session thanking all participants.

5th Session: Concluding Session

In this session ADG(Planning), BWDB delivered his concluding speech. He mentioned that he is very happy for remaining present in the workshop. He appreciated the actions and interaction of the workshop. He hoped that this workshop will help the JICA experts and BWDB to achieve the outputs of the project. He also mentioned that committees will be formed soon and it will act to finalize the issues as mentioned in the proceeding. Finally he wished good health and peace of everybody.

At the end Mr. Abdul Hye, Director Planning-1 thanked all participants for attending the workshop and their patient hearing and comments.

The workshop thus ended following a Lunch.



(Md. Mahfuzur Rahman)
Chief Planning
BWDB, Dhaka.

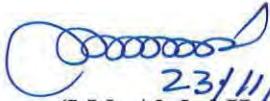
Memo No. BWDB/P-1/ 735 (A^o)

Date: 23.11.2015.

Distribution: (Not as per seniority)

1. Additional Director General (Planning), BWDB, Dhaka.
2. Additional Director General (Eastern Region), BWDB, Dhaka .
3. Additional Director General (Western Region), BWDB, Dhaka.
4. Chief Planning, BWDB, Dhaka.
5. Chief Monitoring, BWDB, Dhaka.
6. Chief Engineer, Hydrology, BWDB, Dhaka.
7. Chief Engineer, Design, BWDB, Dhaka.
8. Chief Engineer, North-Eastern Zone, BWDB, Sylhet.
9. Chief Engineer, Northern Zone, BWDB, Rangpur.
10. Chief Engineer, North-Western Zone, BWDB, Rajshahi.
11. Chief Engineer, Southern Zone, BWDB, Barishal.
12. Chief Engineer, South-Western Zone, BWDB, Khulna.
13. Chief Engineer, Western Zone, BWDB, Faridpur.
14. Chief Engineer, South-Eastern Zone, BWDB, Chittagong.
15. Chief Engineer, Central Zone, BWDB, Dhaka.
16. Chief Engineer, Eastern Zone, BWDB, Comilla.
17. Chief Engineer, O & M, BWDB, Dhaka.
18. Chief, Training & Staff Development, BWDB, Dhaka.
19. Mrs. Hamida Chowdhury, Deputy Secretary, MoWR, Dhaka.
20. Mr. Muhammad Hiruzzaman, Deputy Secretary, MoWR, Dhaka.
21. Director, Planning-1 Directorate, BWDB, Dhaka.

22. Director, Planning-2 Directorate, BWDB, Dhaka.
23. Director, Planning-3 Directorate, BWDB, Dhaka.
24. Superintending Engineer, Design Circle-1, BWDB, Dhaka.
25. Superintending Engineer, Design Circle -2, BWDB, Dhaka.
26. Superintending Engineer, Design Circle -4, BWDB, Dhaka.
27. Superintending Engineer, Design Circle -5, BWDB, Dhaka.
28. Superintending Engineer, Design Circle -6, BWDB, Dhaka.
29. Superintending Engineer, Surface Water Hydrology Circle, BWDB, Dhaka.
30. Superintending Engineer, Moulvibazar O&M Circle, BWDB, Moulvibazar.
31. Director, Programme, BWDB, Dhaka.
32. Director, Contract & Procurement Cell, BWDB, Dhaka.
33. CSO to Director General, BWDB, Dhaka.
34. Director, Processing, BWDB, Dhaka.
35. Executive Engineer, Moulvibazar O&M Division, BWDB, Moulvibazar.
36. Mr. Shamal Chandra Das, Executive Engineer, Office of the Chief Planning, BWDB, Dhaka.
37. Executive Engineer, Flood Forecasting & Warning Centre, BWDB, Dhaka.
38. Executive Engineer, Planning-1 Directorate, BWDB, Dhaka.


23/11/2015
(Md. Abdul Hye)

Director
Directorate of Planning-1,
BWDB, Dhaka.

Annexure-1

**Workshop
on
The Project for Capacity Development of Management for Sustainable Water
Related Infrastructure**

Date: November 16, 2015

Time: 09:30 – 14:00

Venue: Conference Room, the 3rd Floor, WAPDA Building, Motijheel, BWDB

AGENDA

09:00 – 09:30	Arrival and Registration
09:30 – 10:00	<p>Opening Session Chair: DG, BWDB Recitation from the Holy Quran- Mr. Omar Faruque Opening Remarks by Chief Planning, BWDB Outline of Project Activities by JICA Expert Team Remarks by JICA Bangladesh Office Remarks by ADG Planning, BWDB Remarks by DG, BWDB</p>
10:00 – 10:15	Tea/Coffee Break
10:15 – 11:00	<p>Session 2: Present Condition of Embankment Chair: Chief Planning, BWDB Outline of Embankment Works of BWDB Speaker: Mr. Harunur Rashid, SE, Design-1 (15 min) Rough assessment on Current Status of River Embankment in Bangladesh Speaker: Tatsuya MOCHIZUKI, JICA Expert Team (15 min) Discussion (10 min) Remarks by Chairman of Session 2 (5 min)</p>
11:00 – 12:15	<p>Session 3: Preparation of Manuals and Pilot Project Work Chair: Chief Engineer, Design Outline/Basic Consideration on Draft Design Manual for Embankment Speaker: Tatsuya MOCHIZUKI, JICA Expert Team (15 min) Outline/Basic Consideration on Draft Construction Manual for Embankment Speaker: Johji KOIZUMI, JICA Expert Team (15 min) Outline/Basic Consideration on Draft O&M Manual for Hydraulic Structures Speaker: Yosuke USUI, JICA Expert Team (15 min) Outline of Pilot Project Work: Speaker: Mr. Osamu NAKAZAWA, JICA Expert Team (10 min) Discussion (15 min) Remarks by Chairman of Session 4 (5 min)</p>
12:15 – 13:00	<p>Session 4: Report on Training in Japan Chair: Chief Engineer, Design, BWDB Report on Training in Japan Speaker: Mr. Khondaker Khalequzzaman, Chief Monitoring (25 min) Discussion (15 min) Remarks by (Chairman of Session 3 (5 min)</p>
13:00 – 13:15	<p>Session 5: Closing Session Closing Remarks by ADG (Planning), BWDB Thanks Giving by Director, Planning-1</p>
13:15 – 14:00	Adjourn and Lunch

Participant List of the Workshop

The Project for Capacity Development of Management for Sustainable Water Related Infrastructure

Date: November 16, 2015,

Time: 09:30 pm – 14:00 pm

Venue: Conference Room, 3rd Floor, WAPDA Building, BWDB

No	Name	Title/Organization	Phone No Email Address	Signature
1	Md. Mahfuzur Rahman	Chief planning BWDB		
2	Abul Kalam Azad	Chief Engineer Central Zone BWDB.		
3	Md. Abul Rahman Arkanda	Chief Training & Staff Development BWDB		
4	Md. Mozammelque Hossain	Chief Engr. Eastern Zone, BWDB Comilla.		
5	Md. Masud Ahmed	ADG (Planning) BWDB		
6	S.M. Shahidul Haque	CSO to the DG.		
7	Md. Jahangir Kabir	Chief Engineer Design		
8	Saeeda Nazneen	Chief Engineer O&M		

16-11-2015

Appendix-7.2

No	Name	Title/Organization	Phone No Email Address	Signature
9	Mohammad Ali	Director O & M BWDB.		
10	K. M. Anwar Hossain	Addl. Chief Engr. South-west zone BWDB, Khulna		
11	BRAZA MONTOUR NATH	SE, Design Circle-5, BWDB, Dhaka		
12	Sujoy Chakma	Director Planning - II BWDB, Dhaka		
13	HAMIDA CHOWDHURY	DEPUTY SECRETARY, M/O WATER RESOURCES.		
14	Poly Das	Assistant Engineer. Design Circle-2 BWDB, Dhaka		
15	Nasima Jahan	E.E., Design Circle-2 BWDB		
16	Md. Abdul Kausar	SE/Design circle-4		
17	Dr. Jitban Kumar Sarker	EE/Design circle-4		
18	Md. Shafiqul Islam Siraj	EE/Tangail O & M BWDB Division,		

No	Name	Title/Organization	Phone No Email Address	Signature
19	Md. Mahfuzur Rahman	Executive Engineer Design Circle-5 BWDB, Dhaka		
20	SALEH AHMED	Executive Engineer BWDB		
21	Shreendra Nath Sarkar	S.E. Moulvibazar O&M Circle BWDB, Moulvibazar.		
22	Faizur Rob	Executive Engineer (Addl.) Moulvibazar O&M Div. BWDB, Moulvibazar.		
23	Md. Mainul Islam	Deputy Project Manager for Capacity Development of Management for Sustainable water Related Int		
24	Naba Kumar Choudhury	Executive Engineer Jamalpur O&M Div. BWDB, Jamalpur		
25	Provaté Mukherjee	Chief Engineer, Hydrology, BWDB, Dhaka.		
26	Motaher Hussain	SE. Design Circle -6 BWDB.		
27	MA. Amirul Hossain	Executive Engr. FFWC, BWDB		
28	Md. Mahboob ul-Hasan	Director Contract Procurement Cell BWDB, Dhaka		

No	Name	Title/Organization	Phone No Email Address	Signature
29	Md. Kamalur Rahman Talukder	Addl. Chief Engineer BWDB		
30	Dr. Shamal chandra Das,	Executive Engr. office of the chief Planning, BWDB		
31	Nasrin Jahan	Project officer JICA, BWDB		
32	Md. Enayet Ullah	Executive Engineer. Planning-1 BWDB.		
33	Fazlur Rashid	DIRECTOR STAFF DEV. BWDB		
34	A. K. MANZUR HASAN	Superintending Engineer. SWHE, BWDB.		
35	Md. Sajidur Rahman Sarder	Superintending Engineer, Ganges Barrage Study Project		
36	Md. Kudrat Ali ACE/ Project Director, Saraswati River Restoration Project (2nd Ph)			
37	A. K. M. Shafiqul Haque	Superintending Engr/ Director Process Section, CMO BWDB		
38	Md. Asaduzzaman	E. E. Planning-1 BWDB.		

No	Name	Title/Organization	Phone No Email Address	Signature
39	Md. MAHBUB RAHMAN	BWDB Director Programme		
40	Muhammad Hiruz Zaman Deputy	Deputy Secretary Ministry of Water Resources		
41	Jokji KOIZUMI	a Member of JICA Expert Team		
42	Osamu NAKAZAWA	JICA Expert Environment & Social Considerations		
43	Tatsuya Mochizuki	JICA Expert.		
44	Md. Harun ur Rasheed	Superintending Engineer, Design Circle-1 BWDB.		
45	Atiqur Rahman	Chief Engineer Northern Zone BWDB, Rangpur		
46	Kh. Khalequzzaman	Chief Monitoring BWDB.		
47	Md. Abdul Hye	Director (SE) BWDB		
48	Hasan Zubair	JICA local senior expert		

No	Name	Title/Organization	Phone No Email Address	Signature
49	Koichi Kitamura	JICA		
50	Mohammad Shahabuddin	Add. Chief Engr / Project Director, IMIP, MIP, BWDB, Dhaka.		
51	Akhil Kumar Prasad	Superintending Engr Feni & BN Circle BWDB, Feni		
52	Md. Mossarrat Hossain	Chief Engineer Southern Zone PWDB, Bogisal		
53	Md. Sumon Mia	Assistant Engineer planning-1 BWDB		
54	Md. Ragib Hossain	Assistant Engineer Planning-1 BWDB		
55	Shamsad Mahmuda Fatima	Assistant Engr. Planning-1 BWDB		
56	Md. Fahad Hasan	Assistant Engineer Processing Section BWDB, Dhaka		
57	M. Abdur Rakib	Assistant Engineer office of the chief Planning, BWDB, Dhaka		
58	Ashutosh Barman	Assistant Engineer office to the chief Planning, BWDB, Dhaka		

No	Name	Title/Organization	Phone No Email Address	Signature
59	Md Fakhruul Abedin Project Director HFM & LIP, BWDB Dhaka	BWDB		
60	Mr Moniruzzaman Executive Engineer BWDB, Madhupur	BWDB		
61	Md. Rajos Khan ADE, BWDB, Joyprhat,	BWDB		
62	Yosuke USUI	JICA Expert Team/ Team Leader		
63	Muntasir Ibn Mohsin	Administrator JICA Study Team PCDMSWRI		
64				
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Workshop in Field No. 1
on
The Project for Capacity Development of Management for Sustainable Water
Related Infrastructure

Date: January 23, 2016

Time: 09:00 – 14:00

**Venue: Pilot Repair Work Site, &
Conference Room, Hotel Rest Inn, Moulvibazar**

AGENDA

08:00 – 08:20	Arrival and Registration at Moulvibazar O&M Division Office, BWDB (Participants from Dhaka move from Hotel Rest Inn to BWDB Office)
08:20 – 09:00	Move to Pilot Repair Work Site (all participants)
09:00 – 09:30	Session 1 in Field Safety Gathering in Pilot Repair Work Site
09:30 – 10:30	Session 2 in Field Joint Site Inspection (Especially for sand-cement gunny bag works)
10:30 – 11:00	Move from the site to Hotel Rest Inn (All participants)
11:00 – 11:30	Tea/Coffee Break
11:30 – 13:00	Session 3: Safety Management & Foot Protection Works of Pilot Repair Works Chair: ADG Planning, BWDB Opening Remarks by Chief Planning, BWDB Safety Management in Japan (10min) Speaker: Mr. Kazumitsu MURAOKA, JICA Expert to BWDB Report on Trial Fabrication of Sand-Cement Gunny Bag (15min) Speaker: Mr. Md. Mainul Islam, Deputy Engineer in Charge of the Works, JICA Expert Team Construction of Foot Protection Works by Sand-Cement Gunny Bags (15 min) Speaker: Mr. Abdul Kader, Sectional Officer, Moulvibazar O&M Division Questions & Answers, Discussion (40 min) Closing Remarks by Chairman
13:00 – 14:00	Adjourn and Lunch

* 14:30 Participants from Dhaka will start from Hotel Rest Inn to Dhaka.

Proceeding of the workshop on activities of Pilot Repair Work in the Manu River Embankment, Moulvibazar under the Project “Capacity Development of Management for Sustainable Water Related Infrastructure” held on 23 January 2016 at site & in the Conference Room of Hotel Rest Inn, Moulvibazar

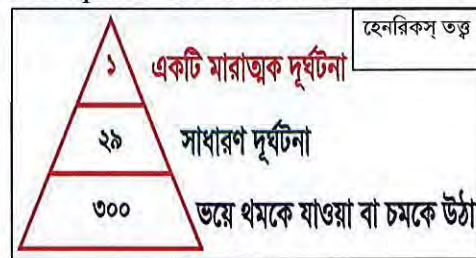
A half day workshop on the activities of Pilot Repair Work on the right embankment/ along the Manu river of Manu River Project at Noarai, Akhailkura Union, Moulvibazar Sadar Upazilla was held on 23 January, 2016.

The workshop had 3 session, 2 (two) at the working site at Noarai, Akhailkura Union, and the 3rd one of Workshop in the Hotel Rest Inn Conference Room of the Moulvibazar City. The 1st two sessions was administrated by Mr. Johji Koizumi, Project Manager at the Repair/Construction site at the field and the 3rd session was chaired by the Additional Director General (Planning), BWDB in Rest Inn hotel.

The participants list are attached in Annex-A

The First session in the field start at 09:15, Before that all participants gathered in BWDB, Moulvibazar Office for preparation and wear safety helmet with logos of BWDB & JICA and start for the site.

In the site all the labor and participants including the JICA officials and JET Consultant stand on line and Mr. Koizumi discussed the Safety Law (Heinrich’s Law) and the safety Slogan ”Safety First” “সবার আগে নিরাপত্তা” (Sobar Age Nirapotta) was enchanted by everybody. It was discussed that, as per Heinrich’s Law, that in a workplace, for every accident that causes a major injury, there are 29 accidents that cause minor injuries and 300 accidents that cause no injuries. Because many accidents share common root causes, addressing more commonplace accidents that cause no injuries can prevent accidents that cause injuries. In other words after 300 incidents of ordinary incidents or awful events, one ordinary Accident may Happen and after 29 number of ordinary Accident, one serous Accident may happen that caus major injury even death cases with major loss of Properties Machinerics and assets.



Then the 2nd session of inspection of the Pilot work started. The participants inspected manufacturing of Sand-Cement gunny bag and CC block. Chief Engineer, North Eastern Zone, BWDB /Sylhet and Superintending Engineer/Moulvibazar O&M Circle pointed about the cutting of shoal in Manu River just opposite to the pilot site. Director Design-1 measured the dimensions of the sand cement gunny bag and enquired about the volume of each sand-cement gunny bag.

Amr

Then the participants came back in the Hotel Rest Inn and the 3rd Session on presentation of paper & discussion started.

The 3rd session of Workshop started with Recitation of Holy Quran. Then all participants introduced themselves. With the permission of the Chair, Mr. Mahfuzur/Rahman, Chief Planning delivered his inaugural speech.

Mr. Mahfuz told that this Capacity Development Project & the Pilot Repair Work is a Joint Venture by BWDB & JICA. If the lesson learnt from this pilot repair works can be disseminated to other BWDB works then it will be helpful in future. He said that he liked the safety demonstration in the field very much as this type of thing is a new in BWDB .He also expressed satisfaction about the quality of C.C blocks and sand cement gunny bags.

He also said that the vehicle driver & machinery drivers should also be very careful about the safety measures. He said that plan design, execution, workshop etc. all are beneficial to BWDB.

Then Mr. Muraoka, JICA expert to BWDB delivered his speech on Safety measures adopted in Japan during construction. He said that he joined in BWDB since September, 2014. He has visited almost all over Bangladesh. Before coming to Bangladesh he worked in Japanese Ministry of Land Infrastructure Transport & Tourism. He has some experience in construction work. In all construction site safety issue is of utmost importance.

Through power point presentation he showed the symbol of safety measures which are demonstrated in the construction site. He also described about the importance of safety and industrial safety and health Act of Japan since Nov1946. In slide he showed the daily safety measure activities in Japan & also the weekly & Monthly safety measure activities.

He also mentioned that in the 1900th century US steel in USA had the slogan **Production First, Quality Second, and Safety Third**. But that did not worked good. Then US steel President Mr. Gray changed company's polity as:

AM

SAFETY FIRST
QUALITY SECOND
PRODUCTION THIRD

He also showed the Typical Japanese Safety Placard

ANZEN-DAI-ICHI

Which means Safety first

Then Mr. Mainul Islam, Deputy Project Manager of Pilot Repair Works presented his paper in “Trial Fabrication for Sand-Cement Gunny Bag” through power point presentation.

He spoke about objective of Sand-Cement Gunny Bag Fabrication, Inspection of Sand-Cement Gunny Bag & out come from the trial result.

Objective of Sand-Cement Gunny Bag is shaping the foundation of embankment & toe wall. In the field 99 of Sand-Cement Gunny Bag was fabricated with different proportion and sand type. Inspection of sand cement gunny bag was carried out after 7 days curing, 14 days curing & 3-5 days curing for work ability and hardening by (1) measuring unit weight (2) dropping test (3) scratch surface and other observation. After all observation it was decided that Sand Cement preparation is 8:1 & FM of sand=1.50 (preferably Sreemongal sand) & 220 Kg. of Water p/m^3 will be used. i.e., 24.5 kg of water for 25 Kg Cement & 200 Kg of sand will be used for one small batch of Sand Cement Mortar.

Then Mr Abdul Quder, S.O/BWDB delivered his paper on construction of Sand Cement Gunny bag. He pointed the following:

- 1.Fabrication
- 2.Curing and stock pile.
- 3.Dumping.
- 4.Setting up shape and measurement.
- 5.Difficulties such as
 - a. Water Level rise and drop of Manu River
 - b. Delivery of bags
 - c. Hike of Market Price of Gunny bags.
 - d. Checking shape of Sand Cement gunny bag mound under water.

He also spoke about the extension of Geo-textile sheet in the foundation from toe wall

am

to the bottom of foundation sand cement mound's top peripheral surface. Also he showed a graphical progress of the sand cement gunny bag construction and dumping.

Then the floor was opened for discussion and comments by the participants.

Mr. Mahfuzur Rahman, Chief, Planning pointed out that price hike is not a problem. Also the rise of water land in Manu River can be known from the BWDB and it is not a serious problem. He also expressed his satisfaction about the size & shape of the CC block at site.

Mr. Harun, Superintending Engineer, Design-1 said that survey under water may not be a problem. He also pointed out that the mixer machine operator should be well trained about the water cement ratio. He also suggested that safety measure motivation procedure and activities should be included in the construction manual. The safety measure issue may also be disseminated in the broad review meeting. He also suggested that here sand cement bag has been fabricated in 8:1 proportion with sand of FM=1.49. But for experiment 100 nos. Sand Cement Gunny bag may be fabricated with 10:1 proportion & Sand of FM=1 and see the outcome. Mr. Harun, SE also told that Geotextile filter may be extended if necessary.


Mr. Amirul Hossain, Director Planning-1, BWDB thanked Mr. Johji Koizumi for the Safety Drill. He pointed out that Japan is a trusted friend of Bangladesh. He also said that Japanese never compromise with the quality of work so he thinks that high quality workmanship are being maintained & will be maintained in the pilot repair works.

Chief Engineer, North Eastern Zone, BWDB, Sylhet thanked JICA & JICA expert for such a workshop & safety drill in the field. He suggested that in future some other contractor representative from other areas of BWDB should be invited in such workshop so that they can be aware of safety activities and procedures followed in the pilot work.

Mr. Dhiren, SE, Moulvibazar pointed out that trial may be made to increase the volume of the sand cement gunny bag so that it covers some more area and no of sand cement gunny bag is reduced. He also suggested that the work may be extended 50m more along the side of the grave yard.

Then Mr. Md. Masud Ahmed, ADG Planning and chairman of the session in his speech praised about the activities of JICA expert team. He suggested that care should be taken for proper curing. He expressed his satisfaction about the shape and size of the blocks. He also told that initiative of JICA is very helpful in respect of safety procedure and capacity development of BWDB. He thanked Mr. Ara & other JICA experts heartily.

Then the workshop ended with thanks to everybody by the Chair of the Workshop and lunch.



27/1/18

(Md. Masud Ahmed, PEng.)
Add. Director General (Planning)
BWDB, Dhaka.

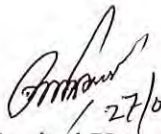
Memo No. :- 907, Dt. 27.01.2016

Distribution: (Not as per seniority)

1. Additional Director General (Planning), BWDB, Dhaka.
2. Chief Engineer, Design, BWDB, 72, Green Road, Dhaka.
3. Chief Planning, BWDB, Dhaka.
4. Chief Engineer, North-Eastern Zone, BWDB, Sylhet.
5. Superintending Engineer, Moulvibazar O & M Circle, BWDB, Moulvibazar.
6. Superintending Engineer, Sylhet O & M Circle, BWDB, Sylhet.
7. Superintending Engineer, Design Circle-1, BWDB, 72, Green Road, Dhaka.
8. Superintending Engineer, Design Circle-6, BWDB, 72, Green Road, Dhaka.
9. Director, Directorate of Planning-1, BWDB, Dhaka.
10. Executive Engineer, Office of the Chief Planning, BWDB, Dhaka.
11. Executive Engineer, Directorate of Planning-1, BWDB, Dhaka.
12. Executive Engineer, Design Circle-1, BWDB, 72, Green Road, Dhaka.
13. Executive Engineer, Moulvibazar O & M Division, BWDB, Moulvibazar.
14. Executive Engineer, Sylhet O & M Division, BWDB, Sylhet.
15. Executive Engineer, Habiganj O & M Division, BWDB, Habiganj.
16. Executive Engineer, Kishoregonje O & M Division, BWDB, Kishoregonje.
17. -20. 04 (Four) Sectional Officers, Moulvibazar O & M Division, BWDB, Moulvibazar.
21. Sub-Divisional Engineer, Sylhet O & M Division, BWDB, Sylhet.
22. 01 (One) Sectional Officer, Sylhet O & M Division, BWDB, Sylhet.
23. Sub-Divisional Engineer, Habiganj O & M Division, BWDB, Habiganj.
24. 01 (One) Sectional Officers, Habiganj O & M Division, BWDB, Habiganj.

C.C.

1. C.S.O to Director General, BWDB, Dhaka.
2. PA to Additional Director General (Planning), BWDB, Dhaka
3. Yosuke USUI, Deputy Team Leader, JICA Expert Team, The Project for Capacity Development of Management for Sustainable Water Related Infrastructure.
4. Office Copy


27/01/16

Md. Amirul Hossain
Director
Planning-1, BWDB, Dhaka

Annexure-A

Participant List
for
The Workshop on the Activities of Pilot Repair Works of Manu River Right Embankment

The Project for Capacity Development of Management for Sustainable Water Related Infrastructure

Date: January 23, 2016,

Time: 08:30 pm – 14:00 pm

Venue: Conference Room, 2nd Floor, Rest Inn Hotel, Moulvibazar

No	Name	Title/Organization	Phone No Email Address	Signature
1	Md. Masud Ahmed	ADG (Plans) BWDB		
2	Md. Mahfuzur Rahman	Chief planning, BWDB		
3	Hasan Zubair	JICA Senior Expert		
4	Nooki Matsumura	County Programme Coordinator (Disaster Management), JICA/MDR		
5	Md. Harun ur Rasheed	Superintending Engineer, Design Circle-1 BWDB		
6	Anisuzzaman Chowdhury	Deputy Program Manager JICA		
7	Muhammad Masoud	Executive Engr. Design circle-1 BWDB		
8	AFM Tauhid Jaman	Asst. Engr. Design circle-1 BWDB		

No	Name	Title/Organization	Phone No Email Address	Signature
9	Md. Abdul Hye	Adl. Chief Engineer BWDB, Sylhet		
10	Hiroshi ARA	JICA BD Office		
11	Dhirendra Nath Sarker.	BWDB, /S.E. Moulvibazar.		
12	M L Shaikat	Sub-Divisional Engineer Habiganj O & M Sub- Division-11 BWDB, Habiganj		
13	Md. Abdul Mannan	Sub-Assistant Eng. Ballah O & M Section BWDB, Habiganj.		
14	Sabyasachi Chowdhury	Executive Engineer Habiganj O & M Division BWDB, Habiganj.		
15	Md. Raqib Hossain	Assistant Engineer Directorate of Planning -1, BWDB, Dhaka		
16	Md. Golam Bari	Sub-Assistant Engineer Sylhet O & M Division BWDB, Sylhet		
17	Md. Atiqul Islam	Sub-Assistant Engineer BWDB Moulvibazar		
18	MD Bashir Uddin	Sub-Assistant Engineer, BWDB, Moulvibazar		

No	Name	Title/Organization	Phone No Email Address	Signature
19	Md. Amirul Hossain Director	Planning - 1 BWDB		
20	Md. Enayet Ullah Executive Engineer.	Planning - 1 BWDB.		
21	Md. Sirajul Islam Executive Engineer	Sylhet O & M Division BWDB		
22	Md. Shamsul Haque Executive Engineer	Moulvibazar Mechanical Division		
23	Md. Tawhidul Islam Sub-Divisional Engineer	Sylhet O & M sub- Division - 3 BWDB, Sylhet		
24	Md. Faizur Rob Executive Engineer (Add. ch) Moulvibazar O & M Div.	Moulvibazar O & M Div. BWDB, Moulvibazar.		
25	Md. Abdul Mannan SAE / C.O Moulvibazar O & M Division.	Moulvibazar O & M Div, BWDB Moulvibazar		
26	Md. Abdul Kader Sectional officer Moulvibazar O & M Division	Moulvibazar O & M Division, BWDB		
27	JOHJI KOIZUMI	Project Manager, Pilot Repair Works & a member of JET		
28	Kazumitsu MURAOKA	JICA Expert TO BWDB		

No	Name	Title/Organization	Phone No Email Address	Signature
29	Md. Kamrul Hasan	Creative Media Ltd.		
30	MD. RASEL	u		
31	Solih mah hasan			
32	NURULISLAM			
33	Md. Mainul Islam	Deputy Project Manager, JET PRW, BWDB.		
34	Yosuke Utsui	Team Leader Project CDMSWMS JICA Expert Team		
35	Muntasir Ibn Mohsin	Administrator Project For CDMSWRS JICA Expert Team		
36				
37				
38				

Workshop in Field No. 2
on
The Project for Capacity Development of Management for Sustainable Water
Related Infrastructure

Date: April 02, 2016

Time: 09:00 – 14:00

Venue: Pilot Repair Works Site, &
 Conference Room, Hotel Kairan, Julia Shopping City (2nd Floor), 111 M. Saifur
 Rahman Road (Chowmuhona), Moulvibazar

AGENDA

08:00 – 08:20	Arrival and Registration at Moulvibazar O&M Division Office, BWDB (Participants from Dhaka move from Hotel Rest Inn to BWDB Office)
08:20 – 09:00	Move to Pilot Repair Works Site (all participants)
09:00 – 10:30	Session in Field 1. Morning Gathering for workers & engineers of T.S.S. (Simple address by the Project Manager of T.S.S., “Safety First” Call by all) 2. Joint Site Inspection Fabrication of CC Block with projection Earth works (compaction method, demonstration of checking of density in field: by the staffs of Moulvibazar O&M Division Office, BWDB, others) Foot and slope protection works, Compensation works, etc.
10:30 – 11:00	Move from the site to Hotel Kairan (All participants)
11:00 – 11:30	Tea/Coffee Break
11:30 – 13:00	Session in Conference Room: Quality Control (QC) for Embankment in Pilot Repair Works Chair: ADG Planning, BWDB Opening Remarks by Chief Planning, BWDB 1. River Embankment Works in Japan (15mins) Speaker: Mr. Kazumitsu Muraoka, JICA Expert to BWDB 2. Report of Trial Compaction and QC for Embankment (trial compaction and daily QC with checking field density for embankment, etc.) (15mins) Speaker: Mr. Abdul Kader, Sectional Officer, Rajnagar O&M Section-II, Moulvibazar O&M Division, BWDB 3. Preparation of Works and Others (soil test for selection of embankment material, trial fabrication of CC block with projection, etc.) (15mins) Speaker: Mr. Md. Mainul Islam, Deputy Engineer in Charge of the Works, JICA Expert Team Questions & Answers, Discussion (45mins) Closing Remarks by Chairman
13:00 – 14:00	Adjourn and Lunch * 14:30 Participants from Dhaka will start to Dhaka.

Proceeding of the workshop No. 2 on activities of Pilot Repair Work in the Manu River Embankment, Moulvibazar under the Project “Capacity Development of Management for Sustainable Water Related Infrastructure” held on 2nd April 2016 at the working site as well as at the conference room of Hotel R. S. Kairan, Moulvibazar.

A half day workshop on the activities of Pilot Repair Work along the Manu right embankment under Manu River Project at Noarai, Akhailkura Union, Moulvibazar Sadar Upazilla was held on 2nd April 2016.

The workshop had 3 session, 2 (two) at the working site and the 3rd one at the Hotel R. S. Kairan conference room located at the Moulvibazar district town. The 1st two session held at the field was administrated by Mr. Jozhi Koizumi, Project Manager of the Repair/Construction site and the 3rd session at the hotel conference room was chaired by Chief Planning, BWDB, Dhaka.

The list of participants is attached in Annexure-A

Before the outset of the first session in the field at 9.30, all participants gathered at the Moulvibazar BWDB office premium for necessary preparation.

In the site all the workers and participants including the JICA officials and JET Consultant stood on line putting safety helmet on. Representative of TSS JV (the Contractor) and Mr. Mainul Islam, DPM discussed about the safety at working site and the safety Slogan ”Safety First” “সবার আগে নিরাপত্তা” (Sobar Age Nirapotta) was enchanted by a labor leader & everybody. It was revealed that for Gods Mercy & following the safety rules strictly there was no accident happened so far in the working site.

Then the 2nd session- Inspection of the Pilot work started. The participants observed the compaction activity by bulldozer. Practical demonstration of field density test and Degree of compaction test was done in the worksite and result found quite satisfactory.

The Chief Engineer, North Eastern Zone & Others inspected the toe wall construction & Geo-textile placement as well as laying. Superintending Engineer, Design-1 (SE-1) & others inspected the casting of projected blocks. SE-1 also inspected the sand cement gunny bag (100 no. samples) prepared as per the proportion of 10:1 with ordinary local sand as a test case for the future use in the Projects by BWDB prepared as per decision of the 1st workshop.

After completing the field visit, the participants then came back in the Hotel R. S. Kairan and the 3rd Session-Presentation of papers & discussion started at the hotel conference room.

The 3rd session started with recitation from the Holy Quran. Then all participants introduced themselves. With the permission from Mr. Kh. Khaluquzzaman, Chairman of the session Mr. Amirul Hossain, Director, Planning-III & previous Director of Planning-1 delivered the introductory speech.

Mr. Amirul told that this Capacity Development Project & the Pilot Repair Work is a Joint Venture by BWDB & JICA. Last January, the first workshop was held and as a follow-up & to know about the present activities of the Project, this 2nd workshop has been organized. This project will continue up to June 2017. If the lesson learnt from this pilot repair works can be disseminated to other BWDB works then it will be helpful in future for BWDB.

Then Mr. Kazumitsu Muraoka, JICA expert to BWDB delivered his speech as to the construction work of River Embankment in Japan. First he said that

REMEMBER!

In 1900th, US Steel in USA. The company policy was:

Production First, Quality Second, Safety Third

Then, US Steel President Mr. Gary Changed Company's policy

Safety First, Quality Second and Production Third

Through power point presentation he narrated that there has been the standard ToR for civil construction works in Japan and all civil works should comply with this ToR. Also additional ToR should be added for each construction works.

To develop beautiful, strong and long-life infrastructure, he said that three aspects shall have to be given importance. Those are:

- (i) Good designing
- (ii) Well-planned and controlled construction
- (iii) Strong supervision

If any one of these is lacking, it will not be a good infrastructure. Also sustainable maintenance work will be needed. After making a contract, the contractor makes the construction plan incorporating the following items:

(1) Construction outline, (2) Organization chart on construction site, (3) Machine usage list, (4) Main machine, (5) Materials list, (6) Method of works, (7) Supervision plan, (8) Safety management, (9) Management plan for emergency, (10) Traffic management, (11) Environmental countermeasure, (12) Improvement of environment on construction site, (13) Recycle, re-use and disposal plan & (14) Others

Govt. Officials check the plan and approve it. Then the contractor starts the construction in accordance with the construction plan.

Embankment materials for embankment construction are carried by Dump Truck which is inspected by Govt. Officials and no overloading is allowed. Even if there is overloading, penalty is imposed. Proper compaction is done by pay loader or other suitable equipment and field density is tested by R/I (Radio Isotope) equipment.

He showed some of the photos of embankment works in Japan. He also mentioned that there is ruler gauge to measure the compacted height of the embankment and profile mark for the section of the embankment in Japan. He also said that, the contractor should finally submit all the documents and photos of construction work to supervisor. And also the contractor should make the record of construction and submit to supervisor. He said that in Japan, Supervisor is Govt. Official not the consultant. Supervisor assess the design value, then contractor's value after work and then compare with the supervisor's value.

After Mr. Muraoka, Mr. Abdul Kader, S.O, BWDB presented his paper on Trial Compaction & QC for embankment. He spoke through power point presentation in respect of trial compaction and steps followed for trial compaction-

Step-1: Use of planning compaction

Step-2: Manual compaction by hammer

Step-3: Use of Bulldozer

He also spoke about the daily quality control for compaction in constructing the embankment. He described all the steps in detail and finally spoke about the findings recommendation, e.g., in case of use of bulldozer for spreading & compaction of material layer by layer, number of passes of compaction of 2 times is enough. Thickness of spreading material shall be not more than 25cm. He finally showed the sectional position of working and testing each day.

Then Mr. Md. Mainul Islam, Deputy Project Manager of Pilot Repair works presented his paper on preparation work & other works. He spoke about

(1) Soil test for selection of embankment material

(2) Trial for fabrication of C.C. block 40*40*20 cm with projected part

He stated that trial fabrication for 1:2:4 & 1:3:6 proportion done in this case for the view point of workability and shaping, no difference was found.

He also spoke about manufacturing & dumping of C.C. blocks. Additional trial fabrication of the sand cement gunny bag (10:1 mortar) with local sand of $FM \leq 1$ was carried out. He pointed out that embankment material were tested in RRI after collection form Borrow pits and also form the existing embankment and the result was found satisfactory as per requirements.

After having all presentations finished, the floor was opened for discussion and comments by the participants.

Mr. Md. Harun Ur Rasheed, Superintending Engineer, Design-I said that no reinforcement should be used in constructing the projected block as the projected portion is very small and we cannot provide required clear cover for M. S. bar here. He also said that we can think of using 10:1 sand cement mortar gunny bag after 14 days curing in BWDB work as the result found here after trial fabrication is satisfactory.

Mr. Amirul Hossain, Director, Planning-III thanked Mr. Johji Koizumi and the presenters for their activities and presentation. He wanted to know how these ideas of Pilot work will be disseminated. At this point, JET expert Mr. Hasan Zubair told that these will be disseminated through the Design Manual, O & M Manual & Construction Manual, which are under process of review and approval. Mr. Amirul Hossain suggested that the O & M Manual & Construction Manual may be made in Bangla as short hand out for the facilities of understanding by the field level staff & workers.

Mr. Md. Mahboob ul Kabir, Director, Contract & Procurement Cell wanted to know about the financial position and payment status to the contractor and time schedule of work. JET Expert Team Member Mr. Hasan Zubair replied that in every month IPC is submitted by contractor and that is recommended for payment by JICA Supervising Team Member and Contractor are getting money regularly. There is no problem in this regard. Time schedule for work completion is 15 of May/2016 & till now 73% of work has been done. If there is natural calamity then extra time may be required.

Then Mr. Dharendra Nath Sarker, SE, Moulvibazar requested JICA to take more repair & rehabilitation work in vulnerable parts of embankment in Moulvibazar & expressed satisfaction over the works and for the dumping work already done on the upstream of the pilot work site.

Mr. Md. Abdul Basit, XEN, Design-VI said that although there was no difference between workability & shape size between the proportion of 1:3:6 & 1:2:4 manufacturing the projected blocks but definitely there will be difference in strength.

At this point, Mr, Kh. Khalequzzaman, Chief Planning said that trial has been alright but we should implement the item of projected block as per the specification & what is mentioned in BOQ.

Then Mr. Md. Abdul Hye, Chief Engineer, Sylhet Zone told that BWDB officials specially SO & Work Assistant are getting training here in the field tests for embankment construction and also officials form Sylhet, Habiganj are observing these in workshop. He requested JICA whether we can also utilize equipment like R/I (Radio Isotope) for embankment works in Bangladesh. He also asked the contractor representative in the workshop to give his views about the work. The contractor TSS JV representative Mr. Bakshi Jubayer said that they learnt many things form this work specially how to get the determination on constructing the work in time and how to apply the specified construction procedure. They are happy with JICA's regular payment against their executed work.

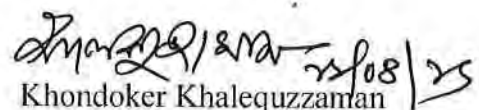
Mr. Kitamura, JICA representative told that after approval of the manuals JICA will try to make these in Bangla,

At the end of the session, Mr. Kh. Khalequzzaman, Chief Planning said that JICA is a good friend of Bangladesh and they are undertaking many projects in Bangladesh and helping in our nation building process.

He said that quality works are being done in the pilot work site with necessary field testing. Our people are also learning how to manage site in an appropriate way and supervise properly.

He requested JICA to take such project in the Coastal Zone of Bangladesh

The workshop ended with thanks form the chair and with lunch.


Khondoker Khalequzzaman

Chief Planning
BWDB

Memo No- 2337

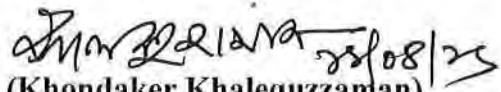
Date: 11.04.2016

Distribution: (Not as per seniority)

1. Additional Director General (Planning), BWDB, Dhaka.
2. Chief Engineer, Design, BWDB, 72, Green Road, Dhaka.
3. Chief Planning, BWDB, Dhaka.
4. Chief Monitoring, BWDB, Dhaka.
5. Chief Engineer, North-Eastern Zone, BWDB, Sylhet.
6. Superintending Engineer, Moulvibazar O & M Circle, BWDB, Moulvibazar.
7. Superintending Engineer, Design Circle-1, BWDB, 72, Green Road, Dhaka.
8. Superintending Engineer, Sylhet O & M Circle, BWDB, Sylhet.
9. Superintending Engineer, Design Circle-6, BWDB, 72, Green Road, Dhaka.
10. Director, Planning Directorate-1, BWDB, Dhaka.
11. Director, Contract & Procurement Cell, BWDB, Dhaka.
12. Director, Program, BWDB, Dhaka.
13. Director, O & M, BWDB, Dhaka.
14. Director, Planning Directorate-3, BWDB, Dhaka.
15. Chief Staff Officer (CSO), BWDB, Dhaka.
16. Executive Engineer, Office of the Chief Planning, BWDB, Dhaka.
17. Executive Engineer, Planning Directorate-1, BWDB, Dhaka.
18. Executive Engineer, Design Circle-1, BWDB, 72, Green Road, Dhaka.
19. Executive Engineer, Moulvibazar O & M Division, BWDB, Moulvibazar.
20. Executive Engineer, Sylhet O & M Division, BWDB, Sylhet.
21. Executive Engineer, Habiganj O & M Division, BWDB, Habiganj.
22. Executive Engineer, Sunamganj O & M Division, BWDB, Sunamganj.
23. Sub-Divisional Engineer, Design Circle-1, BWDB, 72, Green Road, Dhaka.
24. Sub-Divisional Engineer, Sylhet O & M Division, BWDB, Sylhet.
25. Sub-Divisional Engineer, Habiganj O & M Division, BWDB, Habiganj.
26. Sub-Divisional Engineer, Sunamganj O & M Division, BWDB, Sunamganj.
- 27-30. 04 (Four) Sectional Officers, Moulvibazar O & M Division, BWDB, Moulvibazar.
31. 01 (One) Sectional Officer, Sylhet O & M Division, BWDB, Sylhet.
32. 01 (One) Sectional Officer, Habiganj O & M Division, BWDB, Habiganj.

C.C.

1. C.S.O. to Director General, BWDB, Dhaka.
2. PA to Additional Director General (Planning), BWDB, Dhaka
3. Yosuke USUI, Team Leader/Expert for O & M, JICA Expert Team, the project for Capacity Development of Management for Sustainable Water Related Infrastructure.
4. Office Copy


 (Khondaker Khalequzzaman)
 Chief Planning,
 BWDB, Dhaka

Annexure-A

Participant List
for

The Workshop-2 on the Activities of Pilot Repair Works of Manu River Right Embankment

The Project for Capacity Development of Management for Sustainable Water Related Infrastructure

Date: April 02, 2016,

Time: 08:00 pm – 14:00 pm

Venue: Conference Room, 2nd Floor, Hotel Kairan, Moulvibazar

No	Name	Title/Organization	Phone No Email Address	Signature
1	Khondaker Khalequzzaman	Chief Planning BWDB		
2	Md. Abdul Hye	Chief Engo. BWDB		
3	Md. Yahur Rahman	Director Program BWDB		
4	Md. Abdul Basit	Ex Engineer, 1 Design circle-6 BWDB		
5	Md. Harun Ur Rashid	Superintending Engineer Design - 1, BWDB		
6	Md. Faizul Rob	Executive Engineer (Add. ch) BWDB, Moulvibazar		
7	Md. Shamsul Haque	Executive Engineer Mechanical Division BWDB, Moulvibazar		
8	Faiz Ahmed Khan	Sub-Divisional Engineer, Moulvibazar Mechanical Division, BWDB, Moulvibazar		

No	Name	Title/Organization	Phone No Email Address	Signature
9	M L Shaikat	Sub-Divisional-Engr Habiganj O & M Sub- Division-II BWDB Habiganj		
10	Sabyasachi Chowdhury	Executive Engineer Habiganj O & M Division. BWDB, Habiganj		
11	MD-ABDUL MANNAN	Sub-Assistant Engineer, Balla O & M Section, BWDB Habiganj		
12	ASHRAFUL ALAM	WORK Assistant BWDB Moulvibazar O & M Division		
13	MD. JOHIRUL HAQUE	CO-Chairman T. S. S (JV) Moulvi Bazar		
14	Bakshi Jubayer Ahmed	Advisor T. S. S (JV) Moulvibazar		
15	Engr. AFM Tauhid Jameel	AE, Design-1, BWDB, Dhaka		
16	md. Afiaul Islam	Sub Assf Engineer BWDB Moulvibazar		
17	M.D. Abdel Momin Rhyon	S.A.E/SO BWDB Moulvibazar		
18	Md. Imran Ali	SDE BWDB Moulvibazar		

No	Name	Title/Organization	Phone No Email Address	Signature
19	Johji Koizumi	A JET member, Project Manager for Pilot Repair Work		
20	Md. Abdul Kader	Sectional officer. Rajnagar O&M section-II BWDB, Moulvibazar		
21	Md. Mainul Islam Deputy Project Manager, JET	JET, JICA		
22	Md. Khairul Islam	Executive Engr. BWDB		
23	Md. Mahboob-ul-Jabi	Director BWDB		
24	Dharendra Nath Sarker.	S.E., BWDB Moulvibazar.		
25	Tatsuya Mochizuki	JICA		
26	Koichi Kitamura	JICA BD office		
27	Kazumitsu MURAKA	JICA Expert to BWDB		
28	Md. Amirul Hossain	Director Planning-3 BWDB, Dhaka		

No	Name	Title/Organization	Phone No Email Address	Signature
29	Hasan Zubaier	JICA Senior Expert		
30	Yosuke USUI	JICA Expert Team/ Team Leader		
31	Muntasir Ibn Mohsin	Administrator JICA Study Team PCDMSWRI		
32				
33				
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**Final Inspection Step-1 for the Pilot Repair Works
on
The Project for Capacity Development of Management for Sustainable Water
Related Infrastructure**

Date: March 11 & 12, 2017

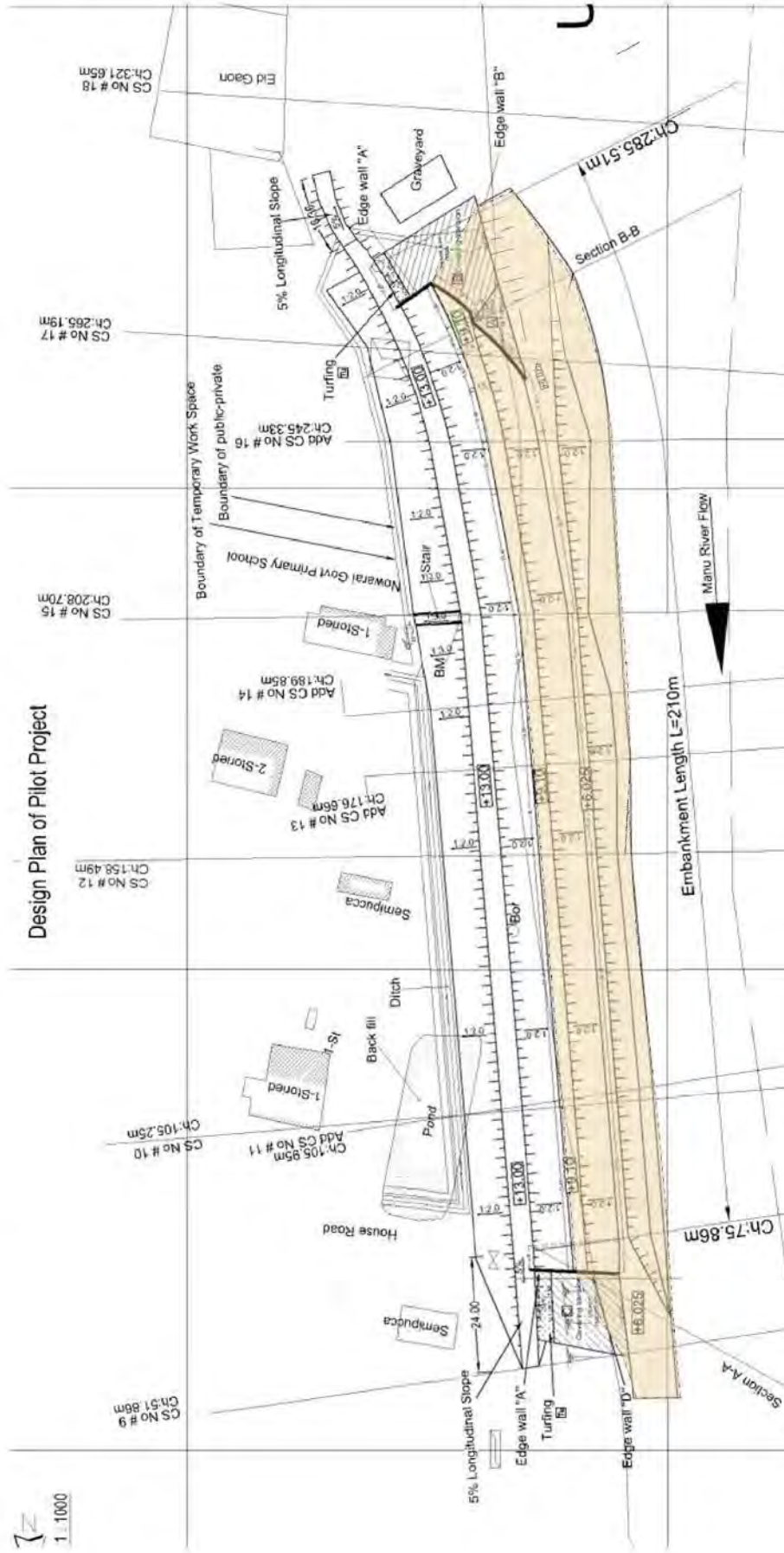
Time: 09:15 – 14:00

**Venue: Pilot Repair Work Site, &
Conference Room, Hotel Rest Inn, Moulvibazar**

AGENDA

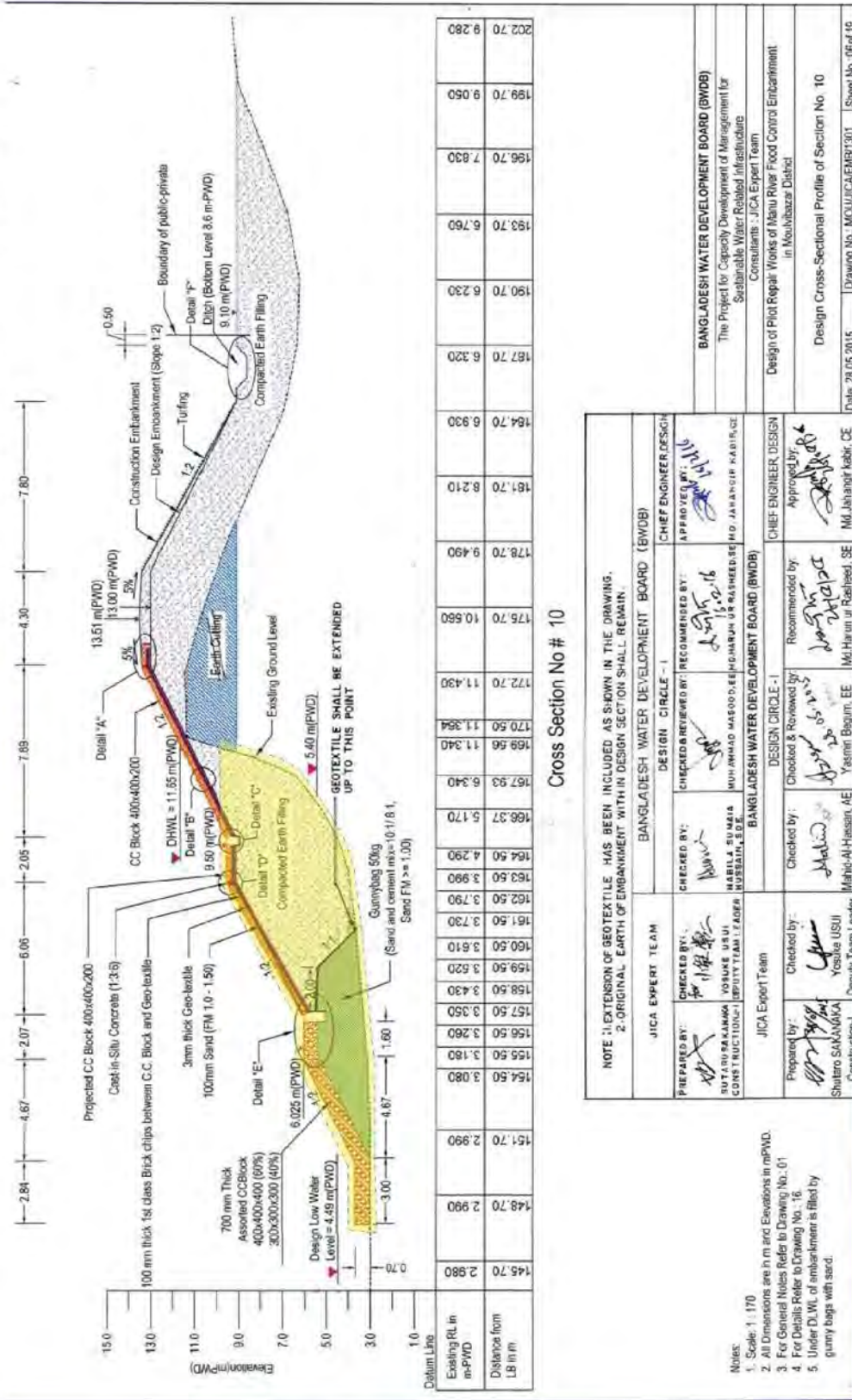
Session 1	March 11, 2017
14:00 – 14:45	Move to Pilot Repair Work Site (from BWDB O&M Moulvibazar)
14:45 – 16:00	Session 1 in Field: Site Inspection 1) Toe Protection 2) Slope Protection up to intermediate berm (9.5m (PWD)) 3) Modification of Termination Area
Session 2	March 12, 2017
– 11:30	Come to Hotel Rest Inn (All participants)
11:30 – 13:00	Session 2: Discussion of Inspection for Step-1 1. Opening Remarks by Superintending Engineer, Moulvibazar O&M BWDB 2. Briefly explanation for construction sand-cement mortar gunny bags construction (10min) by Project Manager of the Works, JICA Expert Team 3. Discussion for Inspection for Step-1 1) Toe Protection 2) Slope Protection up to intermediate berm 3) Others i) Termination Area ii) Date of Final Inspection on 9 or 10 April, 2017 4. Closing Remarks by SE, Design Circle 2 BWDB
13:00 – 14:00	Adjourn and Lunch

Location of Step-1 for Intermediate Final Inspection : The Protection and Slope Protection till 9.50m (PWD)



Section of Step-1 for Intermediate Final Inspection

Toe Protection and Slope Protection till 9.50m (PWD)



Cross Section No # 10

145.70	2.980	148.70	2.990	151.70	2.990	154.50	3.080	155.50	3.180	156.50	3.260	157.50	3.350	158.50	3.430	159.50	3.520	160.50	3.610	161.50	3.730	162.50	3.790	163.50	3.990	164.50	4.290	166.37	5.170	167.93	6.340	169.56	11.340	170.50	11.364	172.70	11.430	175.70	10.660	178.70	9.490	181.70	8.210	184.70	6.930	187.70	6.320	190.70	6.230	193.70	6.760	196.70	7.830	199.70	9.050	202.70	9.280
<p>NOTE 1. EXTENSION OF GEOTEXTILE HAS BEEN INCLUDED AS SHOWN IN THE DRAWING. 2. ORIGINAL EARTH OF EMBANKMENT WITH IN DESIGN SECTION SHALL REMAIN.</p>																																																									
<p>JICA EXPERT TEAM</p> <p>PREPARED BY: <i>[Signature]</i> SUZUKI YUKIYUKA CONSTRUCTION SUPERVISOR</p> <p>CHECKED BY: <i>[Signature]</i> NABILA SUAMIA SUPERVISOR</p> <p>UNCHECKED/REVIEWED BY: <i>[Signature]</i> MUHAMMAD MASOOD BENGALURU & RASHEED BENGALURU</p>																<p>DESIGN CIRCLE - I</p> <p>RECOMMENDED BY: <i>[Signature]</i> MUHAMMAD MASOOD BENGALURU & RASHEED BENGALURU</p> <p>CHECKED BY: <i>[Signature]</i> MUHAMMAD MASOOD BENGALURU & RASHEED BENGALURU</p>																																									
<p>JICA Expert Team</p> <p>PREPARED BY: <i>[Signature]</i> SHUTIRO SANAMURA CONSTRUCTION</p> <p>CHECKED BY: <i>[Signature]</i> YESHIE USUI Deputy Team Leader</p>																<p>DESIGN CIRCLE - I</p> <p>RECOMMENDED BY: <i>[Signature]</i> MUHAMMAD MASOOD BENGALURU & RASHEED BENGALURU</p> <p>CHECKED BY: <i>[Signature]</i> MUHAMMAD MASOOD BENGALURU & RASHEED BENGALURU</p>																																									
<p>Notes:</p> <ol style="list-style-type: none"> Scale 1 : 170 All Dimensions are in m and Elevations in m(PWD). For General Notes Refer to Drawing No. 01 For Details Refer to Drawing No. 16 Under D.W. of embankment is filled by gunny bags with sand. 																																																									
<p>BANGLADESH WATER DEVELOPMENT BOARD (BWDB) This Project for Capacity Development of Management for Sustainable Water Related Infrastructure Consultants : JICA Expert Team</p> <p>Design of Pilot Regar Works of Manu River Flood Control Embankment in Moulvibazar District</p> <p>Design Cross-Sectional Profile of Section No. 10</p> <p>Date: 28.05.2015 Drawing No. MCD/JICA/EMR/1301 Sheet No. 06 of 19</p>																																																									

1. Outline of the Works

- 1) Commencement date: 25 November, 2015 Intended Completion Date: 30 April, 2017
- 2) Contract value; Taka 65,110,614.96.-
- 3) Main work quantities; Proposed river bank is located at the right bank of Manu River in Moulvibazar. Proposed length of bank is 210 m and main work items (original quantities) are follows;
 - i) Earth work; excavation is 7,600 m³ and filling/embankment is 17,682 m³,
 - ii) Toe Protection works; dumping CC-block 40*40*40cm is 16,998 nos and 30*30*30cm is 26,861nos and sand-cement mortar gunny bags foundation is 110,088 nos and
 - iii) Slope Protection works; CC-block 40*40*20cm with projection part (1:2:4 mix) is 21,284 each, CC-block 40*40*20cm (normal, 1:3:6 mix) is 6,521 each and Geo-textile sheet for slope is 4,940m

2. Outline of Step-1

The works of Toe Protection and Slope protection from Toe Wall (top:6.025m PWD) to intermediate berm level (9.5m PWD) is to be supposed for Step-1.

The location of Step-1 is shown on attached location sketch and main work item is stated below table;

Table Main work item of Step-1 of Toe & Slope Protection

Type of work	Work item	Quantity of works done				Remark
		unit	Original	Amended	Work done	
Toe Protection	Dumping CC-block 40*40*40cm	Each	16,998	ditto	16,680	310 reserved
	Dumping CC-block 30*30*30cm	Each	26,861	ditto	26,135	715 reserved
	Sand cement (10:1)gunnybag foundation	No.	44,035	0	100	According to Trial
	Sand cement (8:1)gunny bag foundation	No.	66,053	110,088	108,000	Fabrication
Slope Protection	Work item	unit	Proposed Q'ty		Work Done	by 08/03/10
	CC-block 40*40*20 with projection part, 1:2:4 concrete mix	Each	9,522		8,950	1 st Slope
		Each	4,409		3,683	Berm
			13,931		12,633	Total
	Geo-textile sheet for slope, t=3mm	Sqm	1,144		833	Behind TW
		Sqm	1,524		1,504	1 st Slope
		Sqm	705		681	Berm
		3,373		3,018	Total	

Pilot Repair Works of Manu River Flood Control Embankment in Moulvibazar District (PRW)

Record of Final Inspection Step-1

Name of the Works: Pilot Repair Works of Manu River Flood Control Embankment in Moulvibazar District
(JICA Contract Agreement No.: JICA (BD) 11-12001) (PRW)

Session1. Site Inspection

Date: 14:30-16:00, 11th March, 2017

Place: The Site at Notaria, Akhailkura, Moulvibazar

Session2. Explanation and Discussion

Date: 12:15 – 13:15, 12th March, 2017

Place: Conference room of Hotel Rest Inn, Moulvibazar

The second session was presided over by Mr. Md. S. M. Shahidul Islam, Seperentending Engineer , Moulvibazar O&M Circle, BWDB

1. Attendance and Icons (abbreviations) for each party

1) Attendance is referred to attendance list (Attachment #1).

2) Icons or abbreviations used in this Inspection are as follows, unless otherwise specified;

JICA: Procuring Entity, Japan International Cooperation Agency Bangladesh Office
and JICA long Term Expert for BWDB

JET: Project Manager (PM), Senior Expert of JET and Deputy Project Manager (DPM) entrusted or
appointed by JICA [JET: JICA Expert Team]

TSS: the Contractor, T.S.S. (JV)

BWDB: Superintending Engineer (SE) of Design Circle (DC) 1 and 2 BWDB and Superintending Engineer
(SE), Executive Engineer (Xen) Mechanical & Civil, Sub-Divisional Engineer (SDE) and Sectional
Officer (SO) and other officers from BWDB, Moulvibazar

2. Outline of the Works

1) Commencement date: 25 November, 2015 Intended Completion Date: 30 April, 2017

2) Contract value; Taka 65,110,614.96.-

3) Main work quantities; Proposed eroded river bank is located at the right bank of Manu River in
Moulvibazar. Proposed length of bank is 210 m and main work items (original quantities) are follows;

i) Earth work; excavation is 7,600 m³ and filling/embankment is 17,682 m³,

ii) Toe Protection works; dumping CC-block 40*40*40cm is 16,998 nos and 30*30*30cm is 26,861nos and sand-
cement mortar gunny bags foundation is 110,088 nos and

iii) Slope Protection works; CC-block 40*40*20cm with projection part (1:2:4 mix) is 21,284 each, CC-block
40*40*20cm (normal, 1:3:6 mix) is 6,521 each and Geo-textile sheet for slope is 4,940m²

1 Record of Final Inspection Step-1 on 11 & 12 March 2017

*Pilot Repair Works of Manu River Flood Control Embankment in Moulvibazar District (PRW)***3. Objective of Final Inspection Step-1**

To facilitate investigation of the first slope of Protection Work from 6.025m level, including Toe Protection works to the berm level 9.50m, intermediate Inspection is to be done by not only supervising team (joint team of JET and BWDB O&M Moulvibazar) but also by some BWDB engineers concerned with this Pilot Repair Works before flood comes. The workmanship and quality of the works done for Step-1 can be checked and inspected on the site before water level becomes above EL 6.025 m (top of Toe Wall) up to intermediate berm at EL 9.5m.

II. Final Inspection Step-1**1. Outline of Step-1**

The works of Toe Protection and Slope protection from Toe Wall (top: 6.025m PWD) to intermediate berm level (9.5m PWD) is to be supposed for Step-1.

The location of Step-1 is shown on attached location sketch and main work item is stated below table;

Table Main work item of Step-1 of Toe & Slope Protection

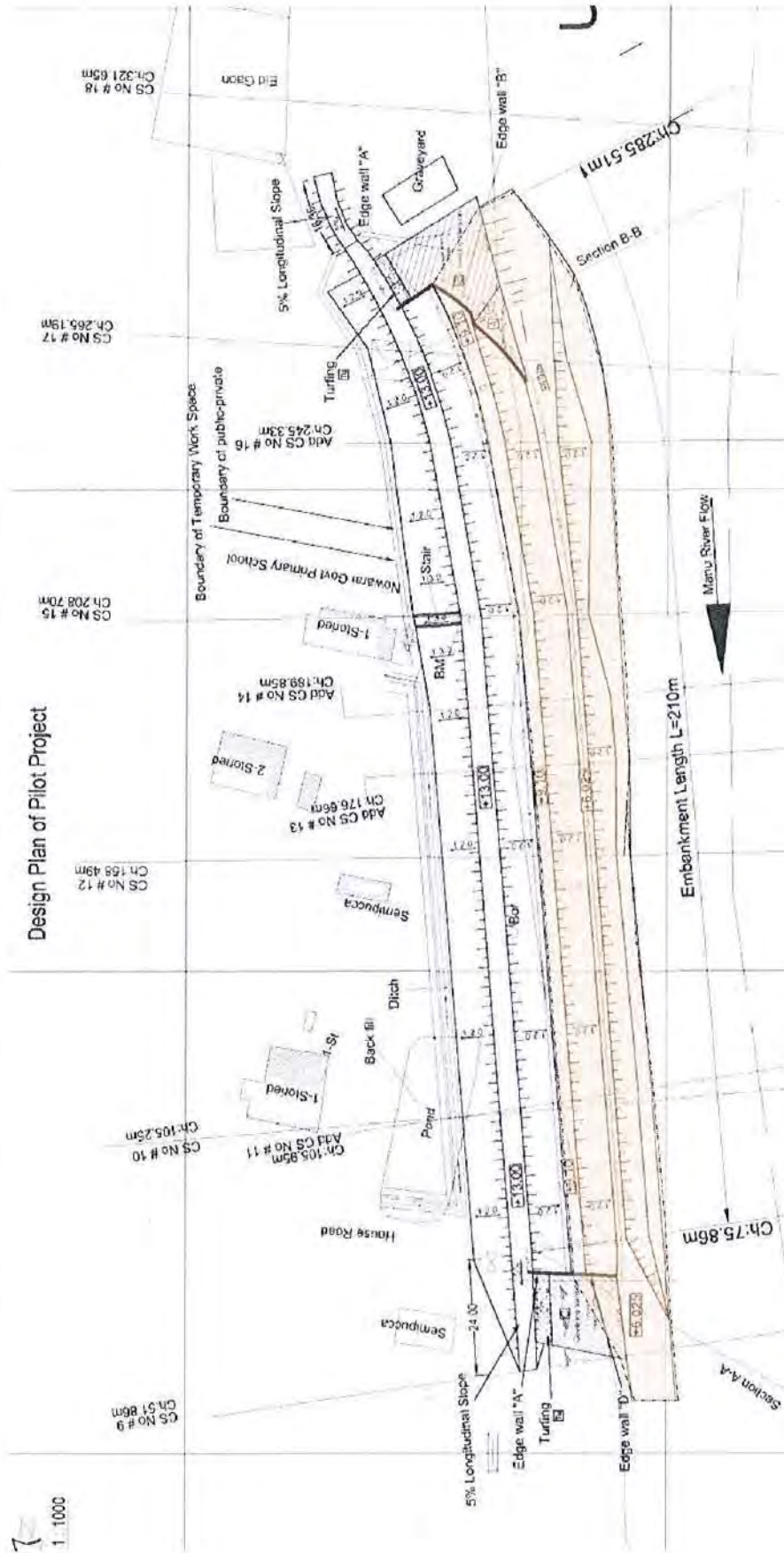
Type of work	Work item	Quantity of works done				Remark
		unit	Original	Amended	Work done	
Toe Protection	Dumping CC-block 40*40*40cm	Each	16,998	ditto	16,680	310 reserved
	Dumping CC-block 30*30*30cm	Each	26,861	ditto	26,135	715 reserved
	Sand cement (10:1)gunnybag foundation	No.	44,035	0	100	According to Trial Fabrication
	Sand cement (8:1)gunny bag foundation	No.	66,053	110,088	108,000	
Slope Protection	Work item	unit	Proposed Q'ty		Work Done	by 10/03 /2017
	CC-block 40*40*20 with projection part, 1:2:4 concrete mix	Each	9,522		8,950	1 st Slope
		Each	4,409		3,683	Berm
			13,931		12,633	Total
	Geo-textile sheet for slope, t=3mm	Sqm	1,144		833	Behind TW
		Sqm	1,524		1,504	1 st Slope
		Sqm	705		681	Berm
			3,373		3,018	Total

2 Record of Final Inspection Step-1 on 11 & 12 March 2017

Pilot Repair Works of Manu River Flood Control Embankment in Mouivibazar District (PRW)

Location of Step-1 for Intermediate Final Inspection

--- : Toe Protection and Slope Protection till 9.50m (PWD)

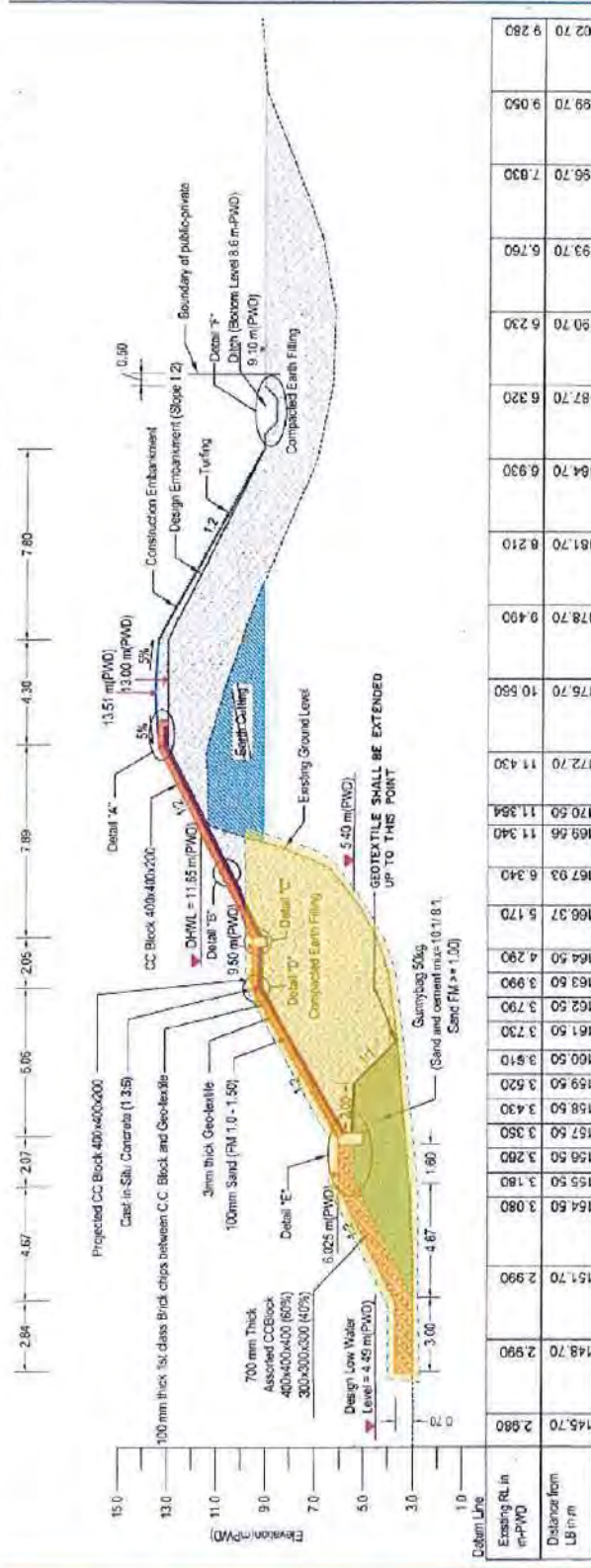


1:1000

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Section of Step-1 for Intermediate Final Inspection

Toe Protection and Slope Protection till 9.50m (PWD)



Cross Section No # 10

Distance from LB in m	145.70	148.70	151.70	154.70	157.70	160.50	161.50	162.50	163.50	164.50	166.37	167.93	169.06	170.50	172.70	176.70	178.70	181.70	184.70	187.70	190.70	193.70	196.70	199.70	202.70
Existing RL in m-PWD	2.80	2.90	2.90	2.90	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Distance from LB in m	145.70	148.70	151.70	154.70	157.70	160.50	161.50	162.50	163.50	164.50	166.37	167.93	169.06	170.50	172.70	176.70	178.70	181.70	184.70	187.70	190.70	193.70	196.70	199.70	202.70

NOTE : 1. EXTENSION OF GEOTEXTILE HAS BEEN INCLUDED AS SHOWN IN THE DRAWING. 2. ORIGINAL EARTH OF EMBANKMENT WITH IN DESIGN SECTION SHALL REMAIN.	BANGLADESH WATER DEVELOPMENT BOARD (BWDB)	
	CHECKED BY: <i>[Signature]</i> MUHAMMAD MASOOD, DESIGNER, JICA EXPERT TEAM	CHECKED & RECOMMENDED BY: <i>[Signature]</i> MUHAMMAD MASOOD, DESIGNER, JICA EXPERT TEAM
JICA EXPERT TEAM		CHIEF ENGINEER, DESIGN
PREPARED BY: <i>[Signature]</i> SHUKRO SARKAR, JICA EXPERT TEAM	CHECKED BY: <i>[Signature]</i> YOUSUF USUI, JICA EXPERT TEAM	APPROVED BY: <i>[Signature]</i> MD. JAHANGIR HOSEIN, CHIEF ENGINEER, DESIGN
Projected CC Block 400x400x200 Cast in Situ Concrete (1:3:5) 100mm thick 1st class brick chips between C.C. Block and Geotextile 3mm thick Geotextile 100mm Sand (FM 1.0 - 1.50) 700 mm Thick Assorted CC Block 400x400x200 (60%) 300x300x300 (40%) Design Low Water Level = 4.46 m(PWD) 8.025 m(PWD) 9.80 m(PWD) 11.65 m(PWD) 13.51 m(PWD) 13.00 m(PWD) 5% 1:2 Turfing Ditch (Bottom Level 8.6 m-PWD) 9.10 m (PWC) Boundary of public-private Completed Earth Filling Existing Ground Level 5.40 m(PWD) GEOTEXTILE SHALL BE EXTENDED UP TO THIS POINT Gummybag 50kg Sand and cement mix = 10:1:8:1 Sand FM = 1.00		BANGLADESH WATER DEVELOPMENT BOARD (BWDB) The Project for Capacity Development of Management for Sustainable Water Related Infrastructures Consultants : JICA Expert Team Design of Pilot Repair Works of Manu River Flood Control Embankment in Moulvibazar District Design Cross-Sectional Profile of Section No. 10 Date: 23.05.2015 Drawing No.: MCOU/CAENB/307 Sheet No.: 06 of 19

- 1. Scale 1:170
- 2. All Dimensions are in m and Elevations in m(PWD).
- 3. For General Notes Refer to Drawing No.: 01
- 4. For Details Refer to Drawing No.: 16
- 5. Under D.W. of embankment is filled by gummy bags with sand.

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*Pilot Repair Works of Manu River Flood Control Embankment in Moulvibazar District (PRW)***2. Site Inspection Record in Session -1**

Surperintending Engineer (SE) Desgin Circle (DC) 1 and 2 BWDB, JICA long term Expert to BWDB and SE O&M circle Moulvibazar, Xen Civil/ME and other staff Division, Moulvibazar and JICA Expert Team visited and inspected the Works on the evening 11 March, 2017.

1) Toe Protection

Inspected by the team and found OK.

2) Slope Protection

Inspected by the team and found OK.

3) Modification of Termination Area

- After observing and inspecting the condition of down-stream termination area, method/treatment for protection for such area (saying area **C**), has been agreed among the participants using pitching placing block (1:3:6mix, with projection part) with sand mat/filter geo-sheet and brick chips as proposed by JET.

- After observing and inspecting the condition of up-stream termination area, it is decided that;

i) further cutting for the higher elevation existing ground beside the last portion of Toe Wall and ending Edge Wall of berm in order coming water not to be pooling on such portion,

ii) after such cutting the area, pitching placing block (1:3:6mix, with projection part) with sand mat/filter geo-sheet and brick chips will be applied for transmission are **A** and **B**,

iii) between area **A/B** and river side Toe Protection area will be filled assorted CC-block with more than 2 layer and

iv) after i) cutting and dressing for further pitching covering, such area shall be surveyed and make sketch, Drafting Revised Design Drawing will be made based on such survey result by CAD method.

-It is advised that gap of dumping CC-block beneath the Grave yard will be filled with further CC-blocks.

3. Minutes of Discussion in Session 2 at conference room

Project Manager of the Work (PM) briefly gave explanation for works done, especially "Toe Protection" using sand-cement mortar gunny bags foundation using projected recording Photos and record of Work Shop held last year with help of Power Point presentation.

After the deliveration by Project Manager, Mr. Johji Koizumi, Mr Haroon, Superintend Engineer, Design Circle II commented as follows;

(a) In executing the Pilot Repair Works, the adverse situation faced last year and within of in this year shall have be mentioned in the Construction Manual for lessons learning.

(b) The case of delay in the execution of the works shall have to been mentioned also

(c) Soil boring in the completed embankment shall have to be made for determining C % ϕ value.

(d) After completion, a sign board stating the work including name of JICA & BWDB may be installed in the site

(e) Still today earth work & embankment in the country side, drain construction, stair construction are left out. Utmost effort should be taken by the Contractor and monitoring by JET is necessary to complete the work within 30 April, 2017.

B

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Pilot Repair Works of Manu River Flood Control Embankment in Moulvibazar District (PRW)

(f) Here, we found that dumping has been done properly upto 6.025 R/L (top level of Toe Wall) from the bed of the river over the same cement mortar gunny bag foundation which should be followed by BWDB.

(g) Our Engineer should follow the working procedures of this work

(h) the drawing section in which gunny bag has been written should be written as sand cement mortar gunny bags

Mr. Muraoka, JICA long term Expert commented as below;

(a) Contractor and JET deserve thanks for accomplishing the progress of works up to 95 % till today.

(b) All sequences of work including compaction activities should be shown in the final document.

(c) As built drawing shall have to be prepared properly showing all the changes and actual measurements. And Final pictures (As built drawing) will be the most important for the future river infrastructure management by BWDB.

(d) Proper planning should be done for completion the Works in time. The Work may have been started as early as possible just monsoon is over.

For this comment, Mr. Hasan Zubair, senior expert of JET replied that in the Pilot Repair Works all the land required have been given by public volunteerly and there was paddy in the land. So the work was started after harvesting paddy in the middle of December. If land is acquired and Crop compensation is given then work can be started any time.

Mr. Bejoy, Xen requested to place below in the area outside project length near the Grave yard from the lowest elevation. JET Team told that it will be done by the available blocks keeping budgetary provision as per the amount approved by JICA within the time available up to 30th April 2017. But there is little scope of any extra work now.

TSS JV expressed the view that they will complete all the work by 1st week of April 2017.

At the end, Mr. Md. S. M. Shahidul Islam, Seperentending Engineer BWDB, Moullovibazar thanked JICA, BWDB officials & JET for this work and requested for taking this type of work in future in other vulnerable area of Manu river. He also requested JICA to help in financing the DPP for the Manu River Rehabilitation project preparation is under process & approval.

The meeting ended with thank from the chair.

Pilot Repair Works of Manu River Flood Control Embankment in Moulvibazar District (PRW)

III. Others

1. Schedule of Final Inspection.

Upon completion of the Works, Final Inspection will be held on 9 or 10 April, 2017

2. In the Final Inspection BWDB Engineer from Dhaka, Moulvibazar & other adjacent area of BWDB & JET & JICA representative will attend preferably.

B. Chakraborty
16/03/17

Bejoy Indra Sanker Chakraborty
Executive Engineer, BWDB
Moulvibazar O & M Division

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2017.3.16

Johji Koizumi
Project Manager,
Pilot Repair Works

Photographs of Final Inspection Step-1:

Pilot Repair Works of Manu River Flood Control Embankment in Moulvibazar District (PRW)

Ph3. Inspection were conducted by SE DC1, DC2, JET Experts and SE, X'en Mech/Civil and other staff of BWDB Moulvibazar on 11 March 2017



Ph3. Session 2: Discussion for Final Inspection Step-1 held the meeting room of Rest Inn hotel, Moulvibazar on 12 March 2017

- Attachment # 1: Attendance List of Final Inspection on 12 March 2017
 # 2: Progress Chart for Pilot Repair Works: for the works done by the end of February 2017
 #3: Reference photos during construction of sand-cement mortar foundation

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Participant List
for
The Workshop for Intermediate Final Inspection Step-1
for the Pilot Repair Works of Manu River at Moulvibazar

The Project for Capacity Development of Management for Sustainable Water Related Infrastructure

Date: March 12, 2017

Time: 09:00 pm – 13:00 pm

Venue: Worksite & Conference Room, 2nd Floor, Rest Inn Hotel, Moulvibazar

No	Name	Title/Organization	Phone No Email Address	Signature
1	YASMIN BEGUM	SE /BWDB		
2				
3	Johji KOIZUMI	Project Manager of Pilot Repair Works		
4	Md. Amisur Rahman	XEN / BWDB		
5	Bejoy Indra Sankar Chakraborty	XEN / BWDB		
6	M. A. Hannan Khan	SDE / BWDB		
7	Md. Khalid bin olid	SDE / BWDB		
8	Hasem Zubair	JICA, Expert		

No	Name	Title/Organization	Phone No Email Address	Signature
9	Md. Shohadat Hossain	Sub-Assis. Eng.		
10	Md. Hasan Parves Riadh	SAE/SO BWDB		
11	Md. Shiful Islam	SAE/SO (Mech.) BWDB.		
12	Md. Sakib Hossain	SAE/SO BWDB		
13	Aruf Hossain	Sub-Asst. Engineer.		
14	Md. Mukh Le chun Rahman Talukdar	Asst. Engineer BWDB, Moulvibazar.		
15	S.M. SHAHIDUL ISLAM	Superintending Engineer, Moulvibazar o&M circle		
16	Kazumitsu MURAOKA	JICA/Expert. to BWDB		
17	Md. Harun ur Rashid	Superintending Engineer Design Cell-2		
18	YASMIN BEGUM			

No	Name	Title/Organization	Phone No Email Address	Signature
19	Md. Imran Ali	SDE BWDB, Moulvibazar		
20	Md. Abdul Kader	Sectional Officer. Rajnagar OSM Section-2 BWDB, Moulvibazar		
21	Md. Johurul Haque	TSS (JV)		
22	SYED RAZAUR Rahman	T.S.S (JV)		
23	Md. Mainul Islam	DPM of PRW CDMSWRI		
24	Md. Atiqul Islam	BWDB Moulvibazar		
25	Muntasir Ibn Mohsin	Administrator JICA, CDMSWRI		

**Inspection for the Pilot Repair Works
on
The Project for Capacity Development of Management for Sustainable Water
Related Infrastructure**

Date: April 27, 2017

Time: 9:15 – 11:00

Venue: Pilot Repair Work Site, Akhailkura Union, Sadar Upazilla, Moulvibazar District

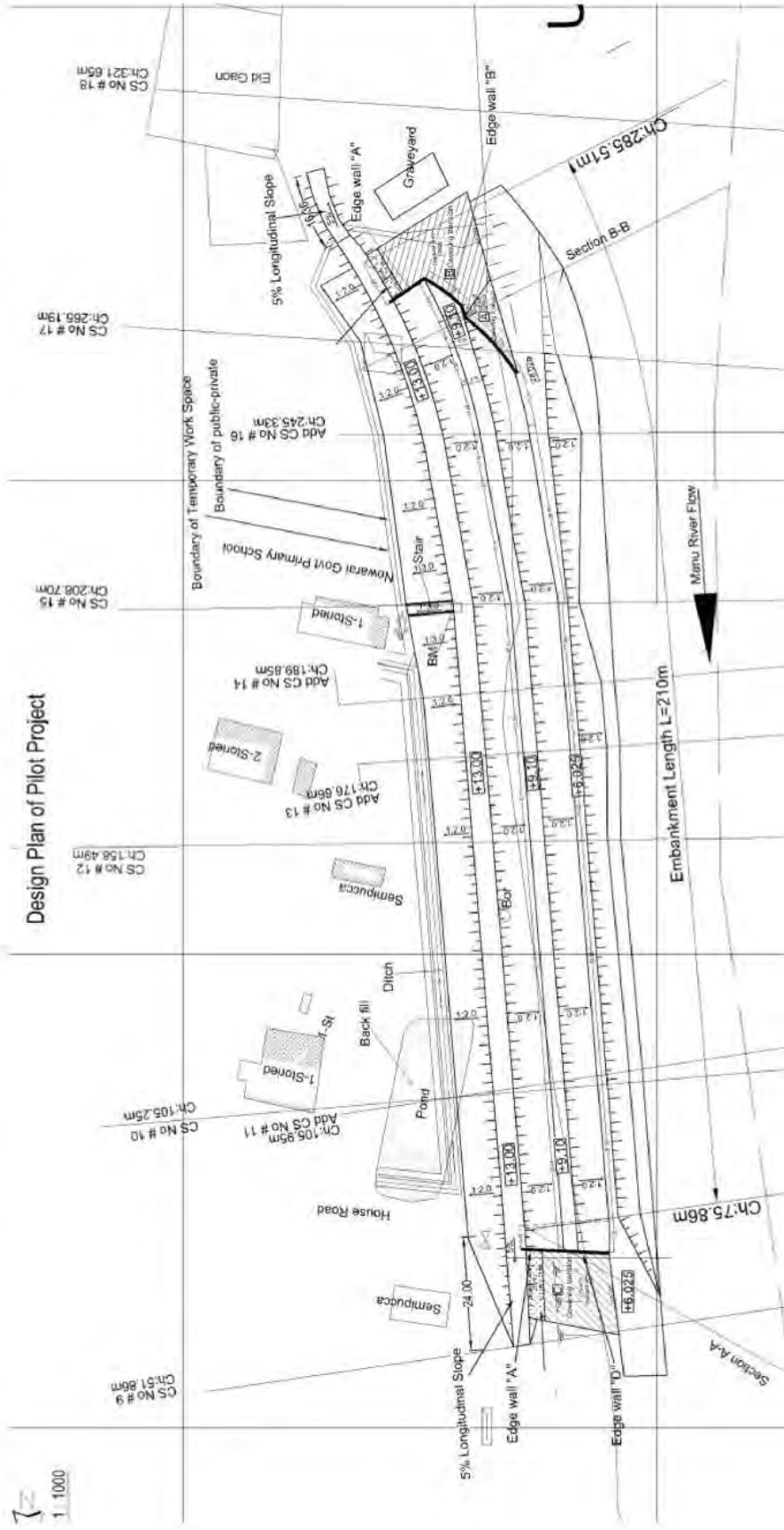
AGENDA

08:30 – 9:15	Move to Pilot Repair Work Site (from Hotels)
09:15– 11:00	<p>Site Inspection and Discussion</p> <p>1. Jointly inspection for the site condition and the progress of the Works at the final stage of the Works</p> <p>2. Judging / making decision whether “Time Extension” Is required or not.</p>
11:00 – 17:00	Move from the site to Dhaka

Remark: Due to unavoidable circumstances caused by rainfall at the end of March & April 2017, the Works hampered much. As such there is every possibility that the Works cannot complete in due time. So, the work shop has been postponed. It will be organized at a later stage.

Location for Final Inspection

Note: This is reference draft of proposed modification Drawing of 04/19 of Contract Drawing



1. Outline of the Works

1) Commencement date: 25 November, 2015 Intended Completion Date: 30 April, 2017

2) Contract value; Taka 65,110,614.96.-

3) Main work quantities are shown below table

Table Main work item of Pilot Repair Works

Type of work	Work item	Quantity of works				Remark
		unit	Original Design	Amended Design	Proposed Final works done	
Length	Proposed length of embankment (on crest)	m	210	200	200+ Up/s 10m Down/s23m	Suite to site condition, but add covering transition 33m
Earth work	Cutting and excavation	m ³	7,600	4,957	4,957	Remaining original ground
	Filling/embankment	m ³	17,682	15,697	15,697	
Toe Protection	Dumping CC-block 40*40*40cm	Each	16,998	ditto	16,690	According to Trial Fabrication. (Work Shop on Jan2016)
	Dumping CC-block 30*30*30cm	Each	26,861	ditto	26,851	
	Sand cement (10:1) gunny bag foundation	No.	44,035	100	100	
	Sand cement (8:1) gunny bag foundation	No.	66,053	110,088	109,050	
Slope Protection	CC-block 40*40*20 with projection part, 1:2:4 concrete mix	Each	21,284	ditto	19,882	Including covering Termination Area Variation No.4 and covering Termination Area
	CC-block 40*40*20 plain, 1:3:6 concrete mix	Each	6,521	ditto	11,135	
	Geo-textile sheet for Slope Protection, t=3mm	Sqm	4,940	6,084	5,948	

The Project for Capacity Development of Management for Sustainable Water Related Infrastructure

Minutes of Site Inspection

Name of the Works: Pilot Repair Works of Manu River Flood Control Embankment in
Moulvibazar District (JICA Contract Agreement No.: JICA (BD) 11-12001)
(PRW)

Site Inspection

Date: 9:15-11:00, 27th April, 2017

Place: The Site at Notaria, Akhailkura, Moulvibazar

The joint site Inspection was made by Project Director and Project Manager of the Project from BWDB. JICA representatives and Supervising Team (consist of JICA Expert Team and BWDB O&M Office, Moulvibazar).

1. Attendance and Icons (abbreviations) for each party

- 1) Attendance is referred to attendance list (Attachment #1).
- 2) Icons or abbreviations used in this Inspection are as follows, unless otherwise specified;
 - JICA: Procuring Entity, Japan International Cooperation Agency Bangladesh Office and JICA long Term Expert for BWDB
 - JET: Project Manager (PM), Senior Expert of JET and Deputy Project Manager (DPM) entrusted or appointed by JICA [JET: JICA Expert Team]
 - TSS: the Contractor, T.S.S. (JV)
 - BWDB: Chief Planning and Executive Engineer, BWDB (Project Director (PD) and Project Manager of the Project, Superintending Engineer (SE), Executive Engineer, and Sectional Officer (SO) and other officers from BWDB, Moulvibazar

2. Objective of Site Inspection

- 1) Jointly inspect the site condition and the progress of the Works at the final stage of the Works
- 2) Judging / making decision whether "Time Extension" Is required or not.

3. Comments/suggestions and instruction at Site Inspection

- 1) Drainage: earthen drain alongside the toe of country side proposed bank slope
 - Pooling water is found in excavated drain and such pooling water may seriously affect the embankment, when water will pass through the drain and there will be erosion as the soil is sandy. The berm from the country side toe is only 0.65m width which may be eroded and ultimately the embankment may be damaged. Also the pooled water in the drain may be seeped through the embankment body.

1 Minutes of Site Inspection on 27 April, 2017

The Project for Capacity Development of Management for Sustainable Water Related Infrastructure

- Engineer in charge of Design of Design Circle BWDB gave the comments, through telephone, that the Drain of original Design Drawing had better t not to be constructed because of the same reasons mentioned above.
- Alternative counter measure for that portion, the Inspection team recommends that existing some puddle/swamp area nearby the toe may be filled and the area proper level with proper gradient to facilitate overland drainage to lower area.

from proposed toe of the bank towards country side connecting ground not as to stuck/pile water.

2) Stair Case

- Existing stair case is found remaining just beside the proposed Stair, existing stair must be demolished and remove the RCC material because remaining RCC structure shall hamper the stability and strength of proposed embankment with less bonding of earth and making water way inside the bank.
- PM of Pilot Repair works instructs TSS to measure the volume of the existing RCC and to estimate extra cost for demolishing works. PM will evaluate them and make Variation to TSS to do so accordingly.

3) Gaps at construction joint at Crest

- Gap of construction joint between placing cc-block and Gap concrete connecting placing cc-block on 2nd Slope. The reasons are considered;
 - i) settlement of constructed embankment below the placing cc-block on the slope or
 - ii) not good workman-ship for casting Gap concrete or other causes
- TSS will repair such gaps in order to be satisfied of original Gap concrete
- If in the defect liability period such gap is increasing, such movement of gap is considered as "Defects" responsible with TSS.

4) Sliding of the country side slope

- It is found that the some portion of country side slope has slid, which recently were covered with turf. The reasons are considered of lack of compaction of such area slope.
- TSS is instructed that such area shall be repaired

5) Crack found on to the Crest

- Between (design) Cross Session (C/S) #16 and #17, there are some cracks on the crest near country side.
- The reason must be considered of lack of compaction against such embankment work, so TSS is instructed to compact such embankment area.
- TSS are strongly cautioned that the failure/slipping/sinking embankment because of lack of proper bonding between original (old) ground/earth and new embankment and not proper embankment workmanship with lack of compaction. It will be the responsibility for TSS to carry out proper embankment works.


 2 Minutes of Site Inspection on 27 April, 2017

The Project for Capacity Development of Management for Sustainable Water Related Infrastructure

6) Deformation of surface of placing cc-block

- Around C/S #16-17, a little deformation of the surface of placing cc-block on the 2nd slope, in case of the cause by the settlement of embankment, the further deformation and settlement will be the responsibility of TSS (JV).

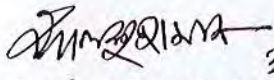
4. Discussion for Judging of "Time Extension"

After discussion and on the basis of site Inspection, the team of Inspection concluded that "The Works shall have to be extended beyond Intended Completion Date, 30 April 2017 as per current Contract due to unavoidable circumstances (bad weather and heavy rain).

And it is recommended that extending days are 30 days. That is the Intended Completion Date is now 30th May 2017.

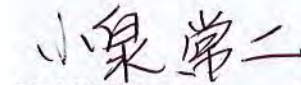
5. Others

- 1) Final Inspection will be conducted after completion of the Works.

 30/04/17

(Khondaker Khalequzzaman)

Chief Planning BWDB,
Project Director of the Project for
Capacity Development of
Management for Sustainable Water
Related Infrastructure

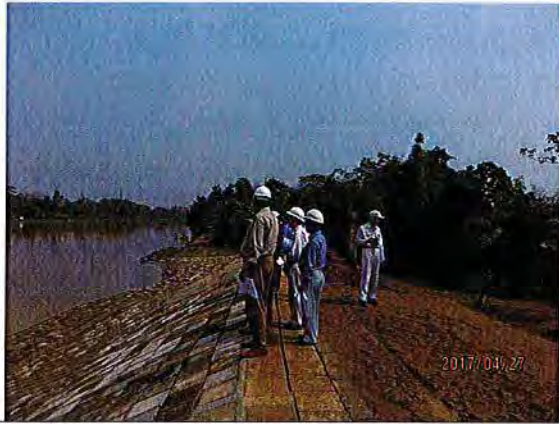
 2017.04.30

(Johji Koizumi)

The Project Manager of the Pilot
Repair Works of Flood Control
Embankment in Moulvibazar
District,
A member of JICA Expert Team

The Project for Capacity Development of Management for Sustainable Water Related Infrastructure

Photos: Site Inspection on 27 April 2017



Ph1. Jointly Inspection from the crest of downstream area



Ph2. Proposed Drainage at Toe of proposed country side slope. Existing swamp small ponds.



Ph3. Old and new RCC Stair Case on to the Slope near the School.



Ph4. Checking cracks on to the crest of the bank at about C/S # No.17



Ph5. Checking construction joint between placing cc-block on cracks and Gap concrete at about C/S # No.16



Ph5. Discussion for the site Inspection and Judging the necessity of Time Extension.

The Project for Capacity Development of Management for Sustainable Water Related Infrastructure

Attendance List of Site Inspection on 27 April 2017

Participant List
in
Site Inspection and Discussion
for the Pilot Repair Works of Manu River at Moulvibazar

The Project for Capacity Development of Management for Sustainable Water Related Infrastructure

Date: April 27, 2017

Time: 09:15 pm – 11:00 pm

No	Name	Title/Organization	Phone No Email Address	Signature
1	Kh. Khalequzzaman	Chief Planning BWDB.		
2	S.M. Shahidul Islam	Superintending Engineer, Moulvibazar O&M circle, BWDB		
3	Dr. Shamal Chandra Das	E. E. Office of the Chief Planning BWDB		
4	Anisuzzaman Chowdhury	Deputy Program Manager JICA		
5	Koizumi Muraka	JICA Expert		
6	Md. Hasan Zubair	JICA Senior Expert		
7	Md. Abdul Kader	Sectional officer BWDB, Moulvibazar		
8	Jokji KOIZUMI	PM-PRW JICA Expert		

The Project for Capacity Development of Management for Sustainable Water Related Infrastructure

No	Name	Title/Organization	Phone No Email Address	Signature
9	Md. Mainul Islam	DPM-PRW JET Team		
10	Md. Johimul Haque	TSS (JV)		
11	Ahmed Sali Mubinnin	SE 15 TSS (JV)		
12	Kutubomih	Land owner		
13	Murtasir Ibn Mohsin	Administrator PCDMSWRI		
14				
15				
16				
17				
18				

Final Inspection for the Pilot Repair Works
on
The Project for Capacity Development of Management for Sustainable Water
Related Infrastructure

Date: May 20, 2017

Time: 14:00 – 17:00

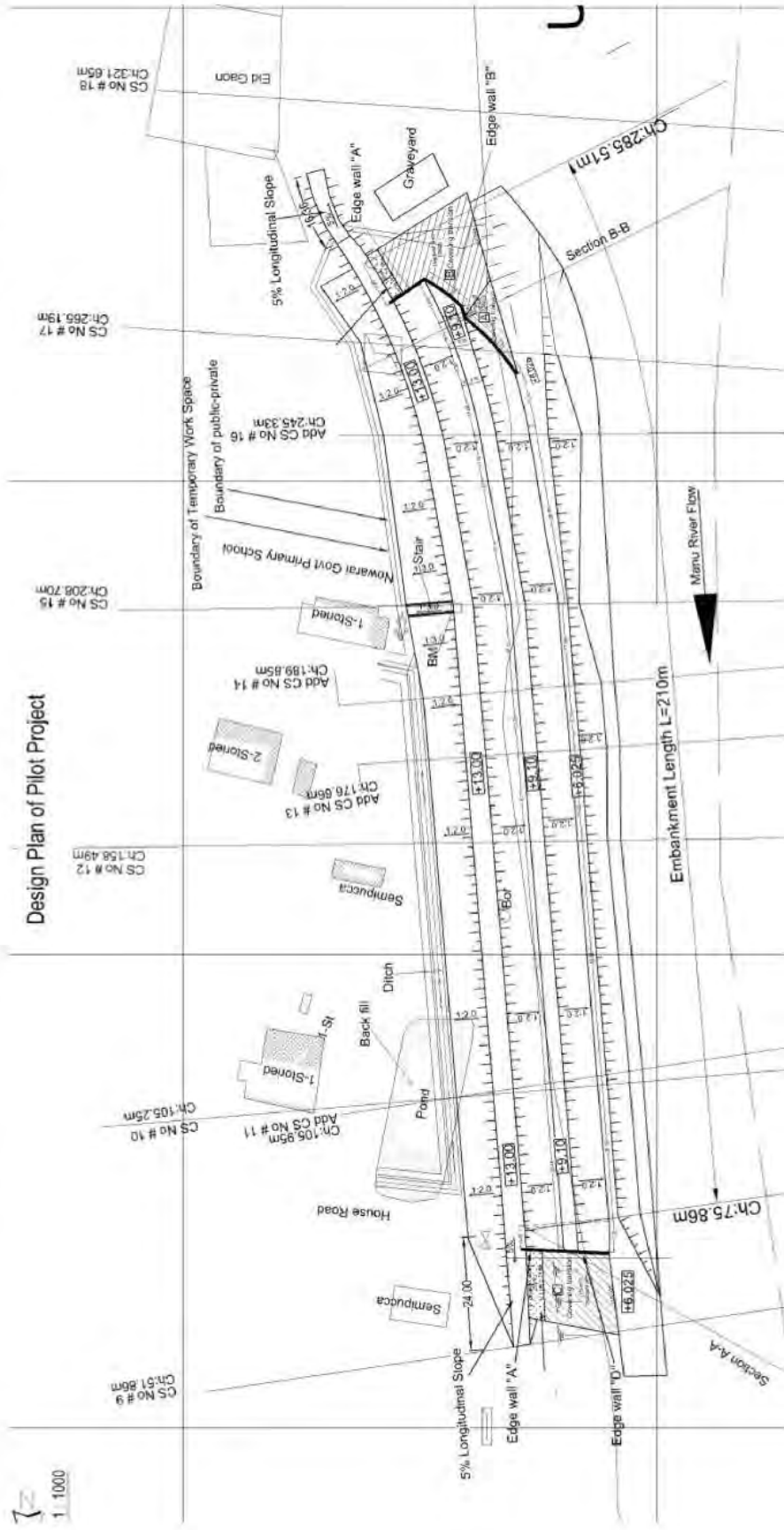
Venue: Pilot Repair Work Site, Akhailkura Union, Sadar Upazilla, Moulvibazar District
 & Conference Room, Hotel Rest Inn, Moulvibazar

AGENDA

07:00 – 13:00	Move to Pilot Repair Work Site (from Dhaka)
14:00– 15:00	<p>Session 1 in Field: Site Inspection</p> <p>1) Investigation and checking workman-ship of the Works 2) Inspection and confirmation of completion of the Works</p>
15:00 – 15:30	Move from the site to Hotel Rest Inn (All participants)
15:30 – 17:00	<p>Session 2: Discussion of the Works upon completion</p> <p>Presiding by Director, Planing-1, BWDB, Project Coordinator of the Project</p> <p>1. Briefly explanation of the construction progress for the Works with showing Photos by Project Manager of the Works, JICA Expert Team (10min)</p> <p>2. Discussion for Final Inspection and the Works</p> <p>1) Repair Pilot Works (PRW) 2) Learnings/studies and suggestions/advices from PRW, for further BWDB works</p> <p>3. Others</p> <p>1) Records of learning are described in the proposed “Construction Manuals (Revision)” of Capacity Development Project 2) Subsequent process; issuance “Competed Certificate”, “Taking Over Document” and others</p> <p>4. Closing Remarks by Superintending Engineer, Design Circle-II, BWDB 5. Address from PE, Representative of JICA Bangladesh Office 6. Thanks given by Superintending Engineer, Moulvibazar O&M Circle</p>
17:00 –	Adjourn

Location for Final Inspection

Note: This is reference draft of proposed modification Drawing of 04/19 of Contract Drawing



1. Outline of the Works

1) Commencement date: 25 November, 2015 Intended Completion Date: 30 May, 2017

2) Contract value; Taka 65,110,614.96.-

3) Main work quantities are shown below table

Table Main work item of Pilot Repair Works

Type of work	Work item	Quantity of works			Remark	
		unit	Original Design	Amended Design		Work done Final Measurement
Length	Proposed length of embankment (on crest)	m	210	200	200+ Up/s 10m Down/s23m	Suite to site condition, but add covering transition 33m
Earth work	Cutting and excavation	m3	7,600	4,957	4,957	
	Filling/embankment	m3	17,682	15,697	15,727	
Toe Protection	Dumping CC-block 40*40*40cm	Each	16,998	ditto	16,990	
	Dumping CC-block 30*30*30cm	Each	26,861	ditto	26,851	
	Sand cement (10:1) gunny bag foundation	No.	44,035	100	100	According to Trial Fabrication. (Work Shop_ Jan2016
	Sand cement (8:1) gunny bag foundation	No.	66,053	110,088	111,210	
Slope Protection	CC-block 40*40*20 with projection part, 1:2:4 concrete mix	Each	21,284	ditto	18,555	Add transition area covering (Variation-6)
	CC-block 40*40*20 plain, 1:3:6 concrete mix	Each	6,521	ditto	10,630	
	Geo-textile sheet for Slope Protection, t=3mm	Sqm	4,940	6,084	6,248	Variation No.4 & No.6 (Transition area)

Minutes of Final Inspection

Name of the Works: Pilot Repair Works of Manu River Flood Control Embankment in Moulvibazar District (JICA Contract Agreement No.: JICA (BD) 11-12001) (PRW)

Session1. Site Inspection

Date: 14:30-15:30, 20th May, 2017

Place: The Site at Noarai, Akhaikura, Moulvibazar

Session2. Explanation and Discussion

Date: 16:00 – 17:30, 20th May, 2017

Place: Meeting room of Hotel Rest Inn, Moulvibazar

I. Attendance and Icons (abbreviations) for each party

1) Attendance is referred to attendance list (Attachment #1).

2) Icons or abbreviations used in this Inspection are as follows, unless otherwise specified;

JICA: Procuring Entity, Japan International Cooperation Agency Bangladesh Office
Representative of Office in charge of the Project and local officer

JET: Team Leader of the Project, Project Manager (PM), Senior Expert of JET and Deputy Project Manager (DPM) entrusted or appointed by JICA [JET: JICA Expert Team]

TSS: the Contractor, T.S.S. (JV)

BWDB: Director of Planning-1 BWDB and Project Coordinator of the Project (PC), Superintending Engineer (SE) of Design Circle (DC) 2, BWDB, Superintending Engineer (SE), Moulvibazar O&M Circle, Executive Engineer (Xen) Civil, Sub-Divisional Engineer (SDE), Sectional Officer (SO) and other officers from BWDB, Moulvibazar O&M Division Office, BWDB

II. Site Inspection (Session 1)

1. Remedial works and re-compaction works were inspected at the site where for the crack found on the last joint site inspection on 27 April 2017. As a result, it is found already repaired and in good condition.
2. Backfilling of the small ditch at the toe of country side slope has not been completed. It is instructed to be completed by 23rd May 2017.
3. There is some settled portion of the shoulder of the crest in riverside of around 5 meter long at near Cross Section No.16. Such part is to be re-constructed and repaired properly.
4. The Work can be declared substantially completed subject to completion of the filling of ditches, stated in bullet 2 above, and to be carried out remedial works for some settled part, stated in bullet 3.above.

The Project for Capacity Development of Management for Sustainable Water Related Infrastructure

5. A warning notice board should be erected to refrain boats or other motor vessels from anchoring at the vicinity of the pilot repair works. Moreover, a large signboard is to be established informing the details of the completed pilot repair works. The prescribed format of Publicity Cell, BWDB should be followed while establishing the information board and furnishing necessary information.
6. The handouts should have the as-built drawing in place of the previously planned drawing to avoid confusion relating to drop of earthen drain at the C/S toe of embankment.

III. Discussion on the completion of the Works (Session-2)

The discussion meeting started around 4 pm, Mr. Fazlur Rashid, Director Planning-I and Project Coordinator presided over the meeting.

1. Explanation of construction progress

Brief explanation of the construction progress for the Works with showing Photographs by Project Manager (PM) of the Works, JICA Expert Team

- 1) Using Power Point Slides and referring handout copies of slides, PM explained overall progress of the Works, especially the delay of the Works due to inclement weather and others
- 2) Recorded photographs are presented for some activities, such as Trial Fabrication of sand-cement mortar gunny bags, Trial Compaction for embankment works, Safety Gathering as Capacity Building events and also Temporary Prevention works for the slope during suspension period of works in the rainy season of 2016.
- 3) Construction Manual (Revision) version-2 are also introduced and some of articles of the Manual were referred to the studies and learning from this Pilot Repair Works.
- 4) The works done are quite satisfactory.

2. Discussion

- SE DC2 comments are followings;

- 1) The entire work was done following the step-by-step administrative procedures. It should be practiced during implementation of other projects by BWDB.
- 2) When planning the schedule analyzing the previous year's hydrological data is essential.
- 3) Manuals, such as Construction Manuals Hard copies, is to be delivered to all BWDB O&M Division Offices

The Project for Capacity Development of Management for Sustainable Water Related Infrastructure

- Representative of JICA BD commented as follows;

- 1) It is a pleasure to know that the Pilot Works is almost complete and after Taking Over from JICA to BWDB, JICA Bangladesh Office would like to request BWDB O&M Moulvibazar Division Office to take care the Pilot Site.
- 2) In the Project, making Manuals, for design, construction and O&M are almost completed and those Manuals are being disseminated. It is desired for BWDB to utilize these Manuals effectively.

- Director of Planning 1, BWDB comments;

- 1) We have many places where we need to do, improvement works. JICA are requested to assist further project not only river embankment works, but also water resource project.
- 2) He extended thanks not only to BWDB staff but also to local & foreign JET members contributing much for this Project.
- 3) The Work may be declared Completed on 23rd May 2017 after the remedial measures taken for minor repair and settled portion and filling of some small ditches (pooling area).
- 4) The works done, especially turfing works are very nice.
- 5) JICA and BWDB will devise scopes in favor of preparing GIS data base for all BWDB structures in Bangladesh. Both the parties would share their collected information, compile together, prepare combined GIS data base and explore the possibilities to establish a permanent GIS Cell at the BWDB HQ. Extended discussion would be held under the chairmanship of the Chief Planning, BWDB, Dhaka.

- Executive Engineer, O&M Moulvibazar Division Office, BWDB's thanks giving and remarks;

- 1) Thanking JICA BD and JET members and the Contractor (TSS JV) completing the Works. It show different type, challenging works, such as introduction of placing CC- block with off-set (projection part) and other events.


3. Actual Completion Date of Works

After discussion regarding Actual Completion Date, finally all member of Final Inspection concluded as follows;

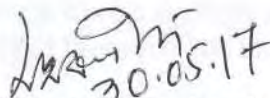
- 1) The Works is not yet completed by Today (20 May 2017)
- 2) After finishing i) filling water pooling places near toe of country side slope and ii) repair works for sinking part at some shoulder of riverside slope at the crest (stating the Site Inspection), the Works will be deemed as "Completed" on 23 May 2017.
- 3) TSS (JV) shall carry out such outstanding works and report to BWDB and Supervising Team, with recoding photos.

The Project for Capacity Development of Management for Sustainable Water Related Infrastructure

The meeting ended thanks from the Chair.


30/5/17
(Fazlur Rashid)

Director, Planning-I, BWDB
and Project Coordinator of
the Project


30.05.17
(Md. Harunur Rasheed)

Superintending Engineer,
Design Circle-II, BWDB

小泉 常二

(Johji Koizumi)

The Project Manager of
the Pilot Repair Works,
A member of JICA Expert
Team

Photos of Final Inspection



Ph1. Site Inspection by Director Planning-1, SE DC2 and Moulvibazar BWDB, JICA and Supervising Team on 20 May 2017



Ph2. Pointing out some sinking part at the embankment crest at around C/S No.16 on Site Inspection








Ph3. On final inspection day (20170520) visiting team on the completed work.



Ph4. Session 2: Discussion for Final Inspection and CDMSWRI Project at Rest In Hotel on 20 May 2017

The Project for Capacity Development of Management for Sustainable Water Related Infrastructure

	
<p>Ph5. Carried out outstanding filling work for water pooling area near toe of country side slope on 21 May 2017</p>	<p>Ph6. SO of BWDB and PM inspect the repairing work for the sinking portion on the crest of bank. On 21 May 2017</p>
	
<p>Ph7. Carry & dumping/filling earth to water pooling area near toe of country side slope on 21 May 2017</p>	<p>Ph8. Re-compacting the crest at the sinking portion on the crest of bank. On 22 May 2017</p>
	
<p>Ph9. Filling earth to water pooling area has been completed by 22 May. Taken on 22 May 2017</p>	<p>Ph8. Re-compacting the crest at the sinking portion on the crest of bank and the repair work has been completed by 22 May 2017</p>

The Project for Capacity Development of Management for Sustainable Water Related Infrastructure

- Attachment # 1: Agenda of Final Inspection on 20 May 2017
- # 2: Attendance List of Final Inspection on 20 May 2017

Participant List
for
The Workshop for Final Inspection
for the Pilot Repair Works of Manu River at Moulvibazar

The Project for Capacity Development of Management for Sustainable Water Related Infrastructure

Date: May 20, 2017

Time: 14:00 pm – 17:30 pm

Venue: Worksite & Conference Room, 2nd Floor, Rest Inn Hotel, Moulvibazar

No	Name	Title/Organization	Phone No Email Address	Signature
1	Md. Harunur Rashed	Superintending Engineer, Design Circle-2 BWDB		
2	Fazlur Rashid	Director, Planning-1, BWDB, Dhaka		
3	S. M. SHAHIDUL ISLAM	Superintending Engineer, Moulvibazar O&M Circle		
4	Bejoy Indra Sankar Chakrabarty	Executive Engineer Moulvibazar O&M Division		
5	Md. Rohat Khan	SICA,		
6	Md. Khalid bin olid	Sub-divisional Engineer (A-c) BWDB, Moulvibazar		
7	Md. Abdul Kader	Sectional officer, Rajnagar O&M Section-2 BWDB, Moulvibazar.		
8	MD. SAKIB HOSSAIN	Sectional officer, Moulvibazar O&M Section-3, BWDB, Moulvibazar.		

No	Name	Title/Organization	Phone No Email Address	Signature
9	Md. Hasan Parves Riadhi	Sectional Officer. Moulvibazar OSM Section 6 BWDB, Moulvibazar.		
10	Md. Shahadat Hossain	sectional officer Moulvibazar OSM Section - 4 Bw.db. Moulvibazar		
11	TANJIR SAIF AHMED	SDE, Planning-1 BWDB		
12	Md. Maimul Islam	DPM - PRW CDMSWRI		
13	Ahmed Sadi Muliuddin	TSS's SE		
14	Liton Roy	TSS's PM		
15	Md. Johirul Haque	TSS (JV) In charge		
16	Koichi Kitamura	JICA		
17	Johji KOZUMI			
18	Hasan Zubair	JICA, Egypt		

No	Name	Title/Organization	Phone No Email Address	Signature
19	Yosuke Utsui	JICA Expert Team		
20	Muntasin Ibn Mohsin	Administrator JICA Study Team PCDMSWRI		
21				
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Minutes of the Workshop on the Project for “Capacity Development of Management for Sustainable Water Related Infrastructure” regarding dissemination of manuals and action plan held on 13th July 2017 in BWDB Conference Room, 3rd Floor, WAPDA Building, Motijheel C/A, Dhaka-1229.

A workshop was held for the dissemination of Design Manual (Prepared by JICA Experts & approved by BWDB), O&M Manual (Prepared by JICA Experts & approved by BWDB), & Construction Manual (Prepared by JICA Experts & under review and process of approved by BWDB) on 13th July 2017 in BWDB Conference room, 3rd Floor, WAPDA Building.

The Workshop was conducted in 5 (Five) sessions as described below. The program and participant list in the workshop is attached in Annex-1 and Annex-2 respectively.

Opening Session: Mr. Md. Mahfuzur Rahman, Director General, BWDB chaired the session. The session started with recitation from the Holy Quran. Mr. Md. Abdur Rahman Akhanda, Additional Director General (Planning), BWDB, Dhaka said in his opening speech that the prepared and approved manuals would be disseminated and discussed in details. If any issue would be raised, then it could be accordingly accommodated in the manuals. Then he hoped that the workshop would be fruitful and useful for BWDB practitioners.

Mr. Hitoshi Ara, Senior Representative, JICA Bangladesh Office said that the Manual had been prepared in the updated form. He expressed necessity to apply this manual in to the real field and practice for further improvement. The prepared Action Plan for dissemination had been prepared. He requested BWDB to impart appropriate importance in dealing with the manuals. He told that the manuals would be disseminated to the BWDB offices and requested concerned persons to practice the manuals in the field level.

Mr. Yosuke USUI, Team Leader of the JICA Expert Team described the outline of the project, its activities, objective of the manual & action plan in short. He said that the Project started in August 2013 and will be completed in October, 2017. The overall goal of the project was to achieve water related risk reduction through proper management of water related infrastructure. He described that the manuals are of utmost importance and its dissemination and further practice would improve capacity of BWDB.

Mr. Md. Mahfuzur Rahman, Director General, BWDB, Dhaka expressed gratitude that for the last three years BWDB had been closely associated with this project. He expressed satisfaction on scheduled activities including investigation, exploration, preparation of

manual, training, pilot works, GIS Database etc. accomplished under the Project. He hoped enriching BWDB's manpower with the disseminated knowledge through this workshop and offered accomplishment of the manuals with the suggestions if any. With the speech of the DG, BWDB, the session ended leading to a tea break.

Session 2: Presentation on Design Manual

Mr. Mohammad Shahabuddin, Chief, Training and Staff Development, BWDB, Dhaka chaired the session. The Design Manual was presented by Mr. Tatsuya Mochizuki, JICA Expert in Design. Mr. Mochizuki described the relation between 1995 Standard Design Manual of BWDB and this Manual. He also explained the application of Design Manual with 4 sections, e.g. Prerequisite concerning River Embankment Design, Basic of Embankment Design, design specifications and Verification of Embankment safety. He also briefed the points considered in Design Manual presentation. Then he explained the text book for correct understanding of the river embankment for junior engineers. Embankment failure & counter measures, earthquake phenomenon, relation between dry density and water content ratio, use of projected block in slope protection up to high water level & failure phenomenon in Khulna & Moulvibazar were described as well.

The Chairman of the session then opened the floor for discussion.

Mr. Md. Harunur Rasheed, Superintending Engineer, Design Circle-2, BWDB, Dhaka pointed out that text book for understanding of River Embankment would be useful for BWDB with content of good information. Dr. Shamal Chandra Das, Executive Engineer, Office of the Chief Planning, BWDB, Dhaka opined that compaction would be very important. He intensified on ensuring proper compaction while implementing embankment works. Mr. Tatsuya Mochizuki, JICA Expert (Design) told that BWDB needs to achieve desired compaction using proper equipments and compaction procedures.

Mr. Md. Sajidur Rahman Sarder, Chief Engineer, Southern Zone, BWDB, Barisal asked ways to ensure the stability of embankment made of dredged fill sand against seepage. Mr. Mochizuki suggested providing good clay cover over the embankment for that purpose. Also proper vegetation cover with good turf on the clay should be given, he suggested. Any crack on the surface of slope should be repaired with appropriate materials, he added.

Mr. Fazlur Rashid, Director, Planning-1, BWDB, Dhaka mentioned that in the text book of understanding embankments, provision of extra banking height had been considered. If the

total filling height of the embankment including the extra banking height for subsidence/settlement was considered, then whether we would have to provide extra banking height again or not. Mr. Mochizuki made clarification that BWDB engineers should have to check the height. If the total height would be equal to the height including the extra banking height then the design should be OK. If not, for any reason, the designers should provide extra banking height as required.

Mr. K. M. Humayun Kabir, Additional Chief Engineer & Project Director, Capital Dredging of River System in Bangladesh said that slope protection by block is suitable for coastal zone & for flashy rivers. But in case of North-western and Central Zone of BWDB, blocks along the river side might enhance the surcharge load and might threaten to safety. Mr. Md. Harunur Rasheed, Superintending Engineer, Design Circle-2, BWDB, Dhaka replied that placing of block at 1:2 or 1:3 slope should not be critical against stability in the mentioned zone along major rivers. Mr. Kazumitsu Muraoka, JICA Expert to BWDB said that sediment deposition on the river bed is an important factor with respect to the stability of the river embankment.

Chairman of the session thanked everybody for lively discussion and hope that the Design Manual would be helpful for BWDB in designing the infrastructures.

Session 3: Presentation on Construction Manual

Mr. Johji Koizumi, JICA Expert (Construction) & PM of Pilot Repair Work presented the Construction Manual (revised) by power point based on the activities done in the Pilot Repair Works at Moulvibazar. He explained the objective of construction manual. He mentioned that the manual was supplemented to the TS (Technical Specification) of BWDB and standard schedule of rates with special emphasis on detail of quality control methods and tests, construction planning including progress control and safety control measures.

He described about the trial mix of sand cement mortar and concluded that 8:1 proportion was found better. He described about compaction of layers would be of 20 cm to 30 cm by plate compactor and Bulldozer as had been practiced and done in the Pilot Repair Works. He also spoke about the temporary protection measures taken to protect the area of Pilot Work for flood during 2016 as the work could not be completed in time within May, 2016 due to early rain and adverse weather condition. He recommended for proper planning and scheduling of work execution taken consideration of the weather.

W

Chairman of the session then opened the floor for discussion.

Mr. Md. Harunur Rasheed, Superintending Engineer, Design Circle-2, BWDB, Dhaka asked the best ratio of Sand Cement mortar bag and the thickness of Sand Cement Bag. Mr. Koizumi replied in favor of 8:1 proportion. However, if enough time for manufacturing and curing was found, then 10:1 ratio would also do. He told that the thickness of sand cement bag was not determined. However he said that the mixture could be easily used.

Mr. K. M. Humayun Kabir, Additional Chief Engineer & Project Director, Capital Dredging of River System in Bangladesh expressed his concern that the cost would be higher compared to BWDB's existing cost for such work. Mr. Yosuke Usui, Team Leader, JICA Expert Team replied that BWDB has to build the embankment just on the bank of the river and protection work with sand cement bag mortar, toe wall, projected block etc. That is why the cost would be a bit higher. However, at locations with sufficient set-back distance for the embankment, then cost could be minimized. Mr. K. M. Humayun Kabir, Additional Chief Engineer & Project Director, Capital Dredging of River System in Bangladesh also requested JICA to undertake such Pilot Work along Jamuna & Padma rivers.

Mr. Md. Amirul Hossain, Director, Planning-3, BWDB, Dhaka wanted to know about the similar Project to be taken by JICA. Mr. Muraoka replied that JICA was working out scopes for the next collaboration initiatives.

Mr. Md. Sajidur Rahman Sarder, Chief Engineer, Southern Zone, BWDB, Barisal wanted to know about the allowable velocity which could be tolerated by earthen embankment without protection. Mr. Md. Harunur Rasheed replied that it is 1m/sec for well turfed embankment. Mr. Yosuke Usui told that as per Japanese experience it is 2m/sec with good quality soil and good turf.

Chairman of the session concluded that the Construction manual would be very useful for improving the quality of BWDB infrastructure in future.

Session 4: Presentation on O&M Manual

Mr. Yosuke Usui, Team Leader, JICA presented the O&M Manual. He mentioned that the O&M Manual had been prepared as per Government Approved O&M guide line 2010. He told about the 4 pillars of O&M i.e. Basic Scheme Data, Budget, Planning and Monitoring. He spoke about different kinds of maintenance, importance of patrol and inspection,

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beneficiary participation/ peoples' participation, flood fighting procedures, O&M planning, budgeting, motivation of people & authorities for active participation in O&M and placing proper budget for O&M.

Chairman of the session then opened the floor for discussion.

Mr. Amirul Hossain, Director, Planning-3, BWDB, Dhaka suggested that in the maintenance list of structure in page 05 of the manual inlet, outlet etc. might be added. He also suggested adding the words at page-4 of the manual.

-“Operation of structures is carried out to maintain desired or planned quantity and quality of water inside the Project”

-“Maintenance of infrastructure is carried out to maintain the structures in good operation condition. Maintenance can ensure easy and timely operation of infrastructure”

The word beneficiary participation could be replaced by people participation, he suggested.

Mr. S. M. Shahidul Islam, Superintending Engineer, Moulvibazar O & M Circle, BWDB, Moulvibazar told that budget would be main problem. Even the O&M budget indicated in the DPP was not provided all the time. So budget for O&M should be increased, he opined.

Mr. Usui put importance on sufficient budget and requested BWDB to place demand to the authority with sufficient inventory data and justification to convince GoB to place adequate fund. Mr. Kazumitsu Muraoka said that in Japan also Govt. does not place sufficient fund if proper justification and inventory data is not furnished. So making a good inventory data-base is a must. Mr. Koichi Kitamura from JICA Bangladesh Office said that for this data base JICA could help if requested by Government of Bangladesh & BWDB.

Mr. Md. Harunur Rasheed said that in the manual it was mentioned that BWDB supervising staff could not inspect even once in a month. This was due to shortage of fund and logistic support. So these things should be given in plenty. BWDB should also fix up the priorities properly.

Chairman of the session thanked Mr. Usui for good presentation and also praised the participant for lively discussion. He told that BWDB should follow the 4 pillars of O&M in the real sense and stick to participatory approach of operation.

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Session 5: Presentation of Action Plan

Mr. Yosuke Usui, Team Leader presented the action plan for dissemination of manuals.

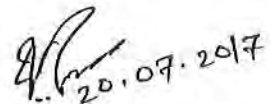
He mentioned about the present condition of embankment and desired future of embankment, slope/application and target user of Manuals, challenges of application of manuals, Road map on Action plan for Dissemination & Effective use of Manuals, Implementation of Action plan, Basic Strength of Action Plan and implementation Structure of Action Plan. He also requested the chairman of the session to include these things in the training session of BWDB. Then the floor was opened for discussion.

Mr. Amirul Hossain, Director, Planning-3, BWDB, Dhaka commented that BWDB had lack of equipment and logistic support also. So these should be mentioned with the lack of budget. He stressed on establishment of GIS cell in BWDB. Mr. Koichi Kitamura & Mr. Kazumitsu Muraoka told that in this respect JICA would help BWDB if requested with technical assistance & fund. At this stage DG, BWDB again joined the workshop.

Mr. Md. Harunur Rasheed asked that whether budget for dissemination would be provided by JICA or BWDB. Mr. Usui replied that it would be from BWDB budget.

Mr. Koichi Kitamura from JICA Bangladesh office took the floor and expressed his happiness as everybody was present till the end and initial dissemination had been done. He requested to apply manuals in a proactive approach. He suggested to customize the manuals with acquired knowledge. He hoped all the best for all of the participants, BWDB, JICA and the JICA Expert Consultants.

Mr. Fazlur Rashid, Director, Planning-1, BWDB, Dhaka thanked everybody for patient hearing and lively participation. The workshop ended with vote of thanks for the Chair.



(Md. Mahfuzur Rahman)
Director General
Bangladesh Water Development Board.

Seminar on Prepared Manuals

Date: July 13, 2017

Time: 09:00 – 15:20

Venue: Conference Room, the 3rd Floor, WAPDA Building, Motijheel, BWDB

AGENDA

08:30 – 09:00	Arrival and Registration
09:00 – 10:00 (60min)	<p>Opening Session Chair: DG, BWDB Recitation from the Holy Quran- (5 min) Opening Remarks by ADG, Planning, BWDB (5 min) Remarks by JICA Bangladesh Office (5 min) Objective of Manuals and the Seminar by JICA Expert Team (5 min) Remarks by DG (10 min)</p>
10:00 – 10:15	Tea/Coffee Break
10:15 – 11:45 (90min)	<p>Session 2: Design Manual for River Embankment Chair: ADG, Planning, BWDB Outline of Design Manual (60 min) Speaker: Mr. Tatsuya Mochizuki, Expert for Design, JICA Expert Team Q& A, Discussion (20 min) Remarks by Chairman of Session 2</p>
11:45 – 12:45 (60 min)	<p>Session 3: Construction Manual for River Embankment Chair: ADG, West, BWDB Outline of Construction Manual (45 min) Speaker: Mr. Johji Koizumi, Expert for Construction, JICA Expert Team Q& A, Discussion (15 min) Remarks by Chairman of Session 2</p>
12:45 – 13:45	Lunch Break & Prayer
13:45 – 15:00 (75 min)	<p>Session 4: O&M Manual Chair: ADG, East, BWDB Outline of O&M Manual (60 min) Speaker: Mr. Yosuke Usui, Team Leader/ Expert for River Management, JICA Expert Team Q & A, Discussion (15 min) Remarks by Chairman of Session 2</p>
15:00 – 15:30 (30min)	<p>Session 5: Action Plan for Dissemination and Effective Use of Manual Chair: Chief Planning, BWDB Outline of Action Plan (20 min) Speaker: Mr. Yosuke Usui, Team Leader/ Expert for River Management, JICA Expert Team Q& A, Discussion (10 min) Remarks by Chairman of Session 2</p>
15:30 – 15:50 (20 min)	<p>Session 5: Closing Session Closing Remarks by Chief Planning, BWDB Thanks Giving by Director, Planning-1</p>
15:50	Tea/Coffee, Adjourn

**Participant List
for
Seminar on Prepared Manuals**

The Project for Capacity Development of Management for Sustainable Water Related Infrastructure

Date: July 13, 2017

Time: 09:30 am – 16:30 pm

Venue: Conference Room, 3rd Floor, WAPDA Building, Motijheel, BWDB

No	Name	Title/Organization	Phone No Email Address	Signature
1.	Md. Mahfuzur Rahman	DG, BWDB		
2.	Md. Abdur Rahman Arhanda	ADG(P), BWDB		
3.	Md. Masuddeque Hossain	ADG(OR) BWDB		
4.	Mohammad Ali	C.E. Rajshahi, BWDB.		
5.	Mohammad Shahamuddin	CE. Training & Staff Dev.		
6.	A.M. Aminul Haque	CP, BWDB		
7.	Saeeda Nazreen	Chief Engineer Design, BWDB		
8.	Md. Sajidur Rahman Sardar	Chief Engineer Southern Zone, Barisal		

No	Name	Title/Organization	Phone No Email Address	Signature
9	Mohammad Ali	Add. chief Engineer B&DB, Faridpur		
10	Fazlur Rashid	Director, Planning-1, BWDB		
11	Md. Enayet Ullah.	Executive Engineer Planning-1 BWDB.		
12	YASMIN BEGUM	S.E. DESIGN-1 BWDB.		
13	Md Fakhrul Abedin	Add. chief Engr PD, HFMLH		
14	K M HUMAYUN KABIR	Add. chief Engr. Capital (Pilot Dredging)		
15	Dr. Shamal Ch. Das	Executive Engr. Office of the C/P BWDB		
16	Md. Abul Kausar	Superintending Engineer Design circle - 4 BWDB, Dhaka.		
17	Md. Amirul Hossain	Director, PL-3 Project Director Blue Gold, BWDB		
18	Md. Abdus Salam	Director O & M Dte. BWDB, Dhaka		

No	Name	Title/Organization	Phone No Email Address	Signature
19	Md. Anif Hossen	SDE, BWDB (Design circle-1)		
20	Poly Das	SDE, Design Circle-2 BWDB		
21	Hasnin Fatema Kamon	SDE, Design Circle-2 BWDB, Dhaka.		
22	Saida Afrose	SDE, Design Circle-2 BWDB, Dhaka.		
23	Asif Mahmud	AE, Design-02, BWDB, Dhaka		
24	Saffal Ara Sayeed	AE, Planning-2 BWDB, Dhaka		
25	Abdur Rahman Tazkia	AE, planning-1 BWDB, Dhaka		
24	Md. Atiqul Islam	AE, Planning-1 BWDB, Dhaka		
25	Md. Sarwar Jahem	SDE, Directorate of OKM BWDB, Dhaka		
26	Tannia Hoque	AE, Planning-1 BWDB, Dhaka		

No	Name	Title/Organization	Phone No Email Address	Signature
27	Nusaeir Hossain	A.E., Design-06 BWDB, Dhaka.		
28	MD. Nahinur Rahman	AE, Directorate of Staff Development, BWDB, Dhaka		
29	Md. Abul Sattar	Superintending Engr. Design Circle-5 BWDB, Dhaka.		
30	MD. SHAHINUR RAHMAN	Sub-Divisional Engineer; Planning-3. BWDB.		
31	AFM Taulid Jamam	Sub-Divisional Engineer, ECRRP, BWDB		
32	Md. Jannatul Akter	AE, Directorate of Project Evalua- -tion,		
33	Md. Kawsar Sankar	AE, planning-3 BWDB, Dhaka		
34	Sourav Kumar Das	AE, office of the Chief Monitoring		
35	Nasreen Islam Huda	AE, planning-1		
36	Nahid Nauaz.	AE, Planning-2 BWDB, Dhaka.		

No	Name	Title/Organization	Phone No Email Address	Signature
37	Hiroshi ARA	Senior Representative JICA Bangladesh Office		
38	Kazchi Kitamura	Representative JICA BD Office		
39	Kazumitsu Muraoka	JICA Expert to the BWDB		
40	Tatsuya Mochizuki	JICA expert Team		
41	Yosuke Usui	"		
42	Johji KOIZUMI	JICA Expert Team, PM of Pilot Repair Works		
43	Hasan Zubeair	JICA Local Senior Expert		
44	S. M. SHAHIDUL ISLAM	Superintending Engr. Moulvibazar ORH Circle - BWDB		
45	Md. Harun ur Rashid	Superintending Engr. Design Circle-2 BWDB, Dhaka		
46	M. A. Basir	SE, CE & M		

No	Name	Title/Organization	Phone No Email Address	Signature
47	MUSA NURUR RAHMAN	SE, DESIGN-6 BWDB		
48	AKM Tahmidul Islam	Director, planning		
49	Md Rafiqul Alam	Superintending Engineer Director, CPC, BWDB Dhaka.		
50	Goutam Biswas	SDE, Design circle-4 BWDB, Green Road. Dhaka.		
51	Munshi Amir Fayzal	SDE, Design Circle-6 BWDB, Dhaka.		
52	Mirza Asifur Islam	AE, Design Circle-3 BWDB, Dhaka.		
53	Md. Abdoul Malek	SDE, Design circle-6 BWDB, Dhaka		
54	Md. Masum Billah	SDE, Design circle-5 BWDB, Dhaka		
55	M. Nazmul Islam	SDE, Dte. of Planning - I, BWDB, Dhaka		
56	A.K. Manzur Hasan	AE E/Hydrology		

No	Name	Title/Organization	Phone No Email Address	Signature
57	Md. Abdullah Al Amin	XEN, BWDB		
58	MD RAQIB HOSSAIN	SDE, DP-1 BWDB		
59	A.K.M. Wahed Uddin Chowdhury	ACE, BWDB Khulna		
60	Mr. Abdur Raghid	D.D, BWDB		

**Appendix-8: Program Orientation (Program and Participants) on Counterpart
Training on River Management in Japan**

Appendix-8.1: Training in Japan, 2014

Appendix-8.2: Training in Japan, 2015

Training Schedule

Training course : The Project for Capacity Development of Management for Sustainable Water Related Infrastructure

Training course	J1421982		
Training period	2014/10/19	2014/11/1	Number of participants 12

Date	Time	Type	Contents	Lecturer/Instructor		Language	Venue	Accommodation
				Name	Company/Agency Name			
10/19	Sun	~	Arrival					Akihabara Washington Hotel
10/20	Mon	9:30 ~ 10:00	Program Orientation	O. Nakazawa	IDEA Consultants, Inc. Overseas Division	E	JICATokyo	Akihabara Washington Hotel
		10:00 ~ 12:30	Briefing	O. Nakazawa	IDEA Consultants, Inc. Overseas Division	E	JICATokyo	
		14:00 ~ 16:00	L Japanese system for disaster	M.Hasegawa	Cabinet Office, under Director-General for Policy Planning, International disaster prevention cooperation expert	J	Cabinet Office	
10/21	Tue	9:30 ~ 11:30	L River Management of Japan	A. Shimasaki	Ministry of Land, Infrastructure and Transport, Water and Disaster Management Bureau, River plan section	J	MLIT	Akihabara Washington Hotel
		13:30 ~ 15:30	L Maintenance of Flood Control Facilities in Japan	N.Osanai	Ministry of Land, Infrastructure and Transport, Water and Disaster Management Bureau, River maintenance planning office	J		
10/22	Wed	10:00 ~ 12:00	L Project Outline of Japan Water Agency (JWA)	H.Noguchi	JWA, Comprehensive Technology Center, international group	E	JWA HQ	Akihabara Washington Hotel
		13:00 ~ 16:00	O Visit to Tone Water-conveyance facilities	T.Kuroki	Tone Water-conveyance general office, Management section	J	JWA	
10/23	Thu	10:00 ~ 12:00	L River improvement measures in the Tonegawa basin	M.Okado	Ministry of Land, Infrastructure and Transport Kanto Regional Development Bureau, Tonegawa upper reaches river office	J	Upper Tone River Office, Kanto Regional Development Bureau, MLIT	Akihabara Washington Hotel
		13:00 ~ 16:00	O Tonegawa river structure visit	K.Nakajima	Ministry of Land, Infrastructure and Transport Kanto Regional Development Bureau, Tonegawa upper reaches river office	J	Disaster Prevention Center and facilities	
10/24	Fri	10:00 ~ 12:00	L River improvement/flood control measures in Saitama	M.Okada	River and Erosion Control Division, Department of Land Development, Saitama Prefectural Government	J	Office of River and Erosion Control Division	Akihabara Washington Hotel
		13:00 ~ 16:00	O Flood management measures (retarding basin, Koshigaya Lake town) in Saitama	M.Okada	River and Erosion Control Division, Department of Land Development, Saitama Prefectural Government	J	Retarding basins, etc.	
10/25	Sat	9:00 ~ 12:00	Travel (by Shinkansen:Tokyo - Nagoya)					JICA Chubu
		13:30 ~ 15:30	O Visit to experience-based disaster prevention learning facilities	T.Yoshimura	Nagoya Port Disaster Prevention Center	J	Nagoya Port Disaster Prevention Center	
10/26	Sun	10:00 ~ 12:00	Document rearranging, self-study	O.Nakazawa	IDEA Consultants, Inc. overseas division	E	JICA Chubu	JICA Chubu
10/27	Mon	10:00 ~ 12:00	Document rearranging, self-study	O.Nakazawa	IDEA Consultants, Inc. overseas division	E	Via Inn Hotel	Via Inn Hotel, Nagoya
		13:00 ~ 16:00	L/O Lecture: River Improvement/Flood Control Measures of the Kiso River, the Nagara river and the Ibi River/visit to several on going construction sites	T.Murata	Lower Kiso River Office, Chubu Regional Development Bureau, MLIT	J	Several on going construction sites, Lower Kiso River Office	
10/28	Tue	10:00 ~ 12:00	O Visit to Nagara River Estuary Barrage	K. Murao	Nagara River Estuary Barrage Operation & Maintenance Office, Japan Water Agency	J	Nagara River Estuary Barrage Operation & Maintenance Office and the barrage	Via Inn Hotel, Nagoya
		13:00 ~ 16:00	L/O Visit to Nikko River construction site / lecture: measures against tsunami and storm surge in low-lying area in coastal area of Aichi prefecture	C. Kato/N. Furuhashi	Maintenance Group, Pumping Station Management Division, Kaifu Construction Office, Aichi Prefectural Government	J	Nikko River Branch Office, Aichi Kaifu Construction Office, Aichi Prefectural Government	
10/29	Wed	9:30 ~ 12:00	O Visits (by ship) to the Nagoya port storm surge breakwater facilities improvement work site	M. Kuroyanagi/A. Jindou	Nagoya Port Office, Chubu Regional Development Bureau, MLIT/Nagoya Port Authority/Aichi Prefectural Government/Nagoya Port Management Union	J	Nagoya Port, Aichi Prefecture	Ochanomizu Hotel Juraku
		13:30 ~ 16:30	Move(by Shinkansen:Nagoya - Tokyo)					
10/30	Thu	9:30 ~ 12:00	P Summarization of Training	O.Nakazawa	IDEA Consultants, Inc. overseas division	E	Hotel Meeting Rm	Ochanomizu Hotel Juraku
		13:30 ~ 16:00	P Action plan preparations	O.Nakazawa	IDEA Consultants, Inc. overseas division	E	Hotel Meeting Rm	
10/31	Fri	~	P Action plan preparations	O.Nakazawa	IDEA Consultants, Inc. overseas division	E	Hotel Meeting Rm	Ochanomizu Hotel Juraku
		~	P Action plan presentation, evaluation meeting, closing ceremony				Hotel Meeting Rm	
11/1	Sat	~	Departure					

L: Lecture O: Observation P: presentation

Training in Japan
Course Title: River Management & Disaster Prevention
Participants List

Period: 19 October 2014~1 November 2014

	Name	Position
1	Mr. PRAMANIK Akm Aftab Hossain	Deputy Secretary, Economic Relations Division, Ministry of Finance
2	Mr. HOSSAIN Kazi Sakhawat	Deputy Secretary, Development Wing, Ministry of Water Resources
3	Mr. RASAL Abu Usuf Mohammad	Assistant Chief, Planning Wing, Ministry of Water Resources
4	Mr. KUNDU Jati Das	Chief Engineer (Design), Design Department, BWDB
5	Mr. AKHANDA Md. Abdur Rahman	Director, Directorate of Planning-1, (Project Coordinator), BWDB
6	Mr. ABEDIN Md. Fakhrul	Superintending Engineer, Office of the Chief Planning, BWDB
7	Dr. DAS Shamal Chandra	Executive Engineer/Project Manager, Office of the Chief Planning, (Project Manager), BWDB
8	Mr. KABIR K. M. Humayun	Director, Directorate of Processing, BWDB
9	Mr. SIRAJ Mohammad Shajahan	Executive Engineer, Office of the Chief Planning, BWDB
10	Mr. AHMED Golam Faruque	Deputy Chief, Planning, BWDB
11	Mr. KHAN Kamruzzaman	Sub-Divisional Engineer, Directorate of Planning-III, BWDB
12	Mr. HOSSAIN Mohammad Akbar	Research Officer, Directorate of Planning-1, BWDB

The Country-Focused Training of JICA (NO. J1522125)

Welcome to Japan! Program Orientation

5 October 2015

JICA Tokyo International Center
Tokyo, Japan

The Country-Focused Training of JICA (NO. J1522125)

CONTENTS

1. Training Staff
2. Training Participants
3. Training Program (Syllabus)
4. Training Schedule
5. Other Information

1. Introduction of Course Staff

- JICA Training Officer : Ms. Eiko SANADA
Economic Infrastructure Development and
Environment Division, Tokyo International Center,
Japan International Cooperation Agency
Phone: +81-3-3485-7650
- JICA Training Coordinator : Ms. Hiroko ARAKI
- Training Coordinator :
Mr. Naoki MATSUMURA, JICA Expert (DDM)
(7 Oct – 9 Oct)
Mr. Kazumitsu MURAOKA, JICA Long Expert (BWDB)
Mr. Osamu NAKAZAWA, JICA Expert Team
Phone: +81-45-593-7637
Mobile phone: 090-4918-5246
E-mail: nakazawa@ideacon.co.jp

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2. Training Participants (1/2)

Name	Organization	Position
Ms. Hamida Chowdhury	Ministry of Water Resources	Deputy Secretary
Mr. Muhammad Hiruzzaman	Ministry of Water Resources	Deputy Secretary
Mr. Khondaker Khalequzzaman	BWDB	Chief Monitoring
Mr. A. K. Manzur Hasan	BWDB	Superintending Engineer, Surface Water Hydrology Circle
Mr. Kazi Tofail Hossain	BWDB	Superintending Engineer Design Circle-2
Mr. Fazlur Rashid	BWDB	Superintending Engineer/Director Planning Directorate-1
Mr. Harun Ur Rasheed	BWDB	Superintending Engineer Design Circle-1

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2. Training Participants (2/2)

Name	Organization	Position
Mr. Mohammad Enayet Ullah	BWDB	Executive Engineer Planning Directorate-1
Mr. Faizur Rob Chowdhury	BWDB	Sub-Divisional Engineer/Executive Engineer, Moulvibazar O&M Division
Mr. Md. Fahad Hasan	BWDB	Assistant Engineer Director Processing Section
Mr. M. L. Shaikat	BWDB	Assistant Engineer Chief Planning Office
Ms. Mosammat Shamsad Mahmuda Fatima	BWDB	Assistant Engineer Planning Directorate-1

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2. Training Participants

- Now please make a brief self introduction.
 - About 2-3 minutes per person.
 - Your name, your role in your organization and what do you want to see in Japan.

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3. Training Program (1/2)

- **Course Objectives**

- To learn the river management and disaster prevention through watching, hearing and experiencing the efforts in Japan, and to study reinforced manners to be applied to the river management and disaster prevention in consideration with the existing condition of Bangladesh.

- **Overall Goal**

- Participants can conduct the river management and disaster prevention activities with reinforced manners employing the extensive knowledge, broad information and improved network acquired through the training in Japan.

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3. Training Program (2/2)

- **Preparation of Action Plan**

- Action Plan shall be prepared for short, middle and long term.
- The plan shall address how to make the most use of lessons learned and training experience for river and disaster management services in Bangladesh, how to disseminate those knowledge and information, and how to consolidate coordination mechanism with concerned organizations in Bangladesh.
- Participants shall be grouped in 3 groups. Each group will make a presentation in the afternoon session on 16 Oct.

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The Country-Focused Training of JICA (NO. J1522125)

4. Training Schedule (1/2)

	Date	Program	Area
1.	5 Oct (Mon)~ 11 Oct (Sun)	Guidance, Orientation, Lectures and Field Inspections	Tokyo and Kanto Region
2.	12 Oct (Mon)	<u>Move from Tokyo to Nagoya by super express train</u>	
3.	13 Oct (Tue)~ 14 Oct (Wed)	Lectures and Filed Inspections	Nagoya, Chubu Region
4.	15 Oct (Thu)	<u>Move from Nagoya to Tokyo by super express train</u>	

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The Country-Focused Training of JICA (NO. J1522125)

4. Training Schedule (2/2)

	Date	Program	Area
5.	16 Oct (Fri)	Finalization and Presentation of Action Plan, Evaluation of Training Course and Closing Ceremony Preparation for Departure	Tokyo
6.	17 Oct (Sat)	Departure from Japan ETD Tokyo (Narita) 10:30 By MH089 via KL ETA Dhaka 20:10 by MH112	

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5. Other Information (1/2)

- Each day's departure time from TIC
Confirmed final departure time will be announced one day before.
- Lunch for 7 Oct
You are kindly requested to purchase your lunch for the day at a 24H store (LAWSON) near TIC before your bus will start from TIC. The bust will start at 8:00.
- General Information about Japan
In order for participants know about general history and culture of Japan, Japan Fact Sheet (JFS) is provided as a part of Training Course materials.
In addition to this, you will visit a very enjoyable "Edo-Tokyo Museum" in the afternoon on 10 Oct (Sat).

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5. Other Information (2/2)

- Shopping Hints
 - (1) Shinjyuku area
 - Electronics: Yodobashi Camera, Yamada Denki, BIC Camera
 - Clothes: UNIQLO, BIQLO, H&M, ZARA
 - Department & other stores: Don Quijote, Keio Department Store, Odakyu Department Store, Isetan Department Store, Takashimaya Department Store
 - (2) Akihabara area
 - Electronics: Onoden, Laox, Yodobashi, Eisan, TOKiS
 - Others: Don Quijote

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That's all!
"Thank you for your
kind attention"